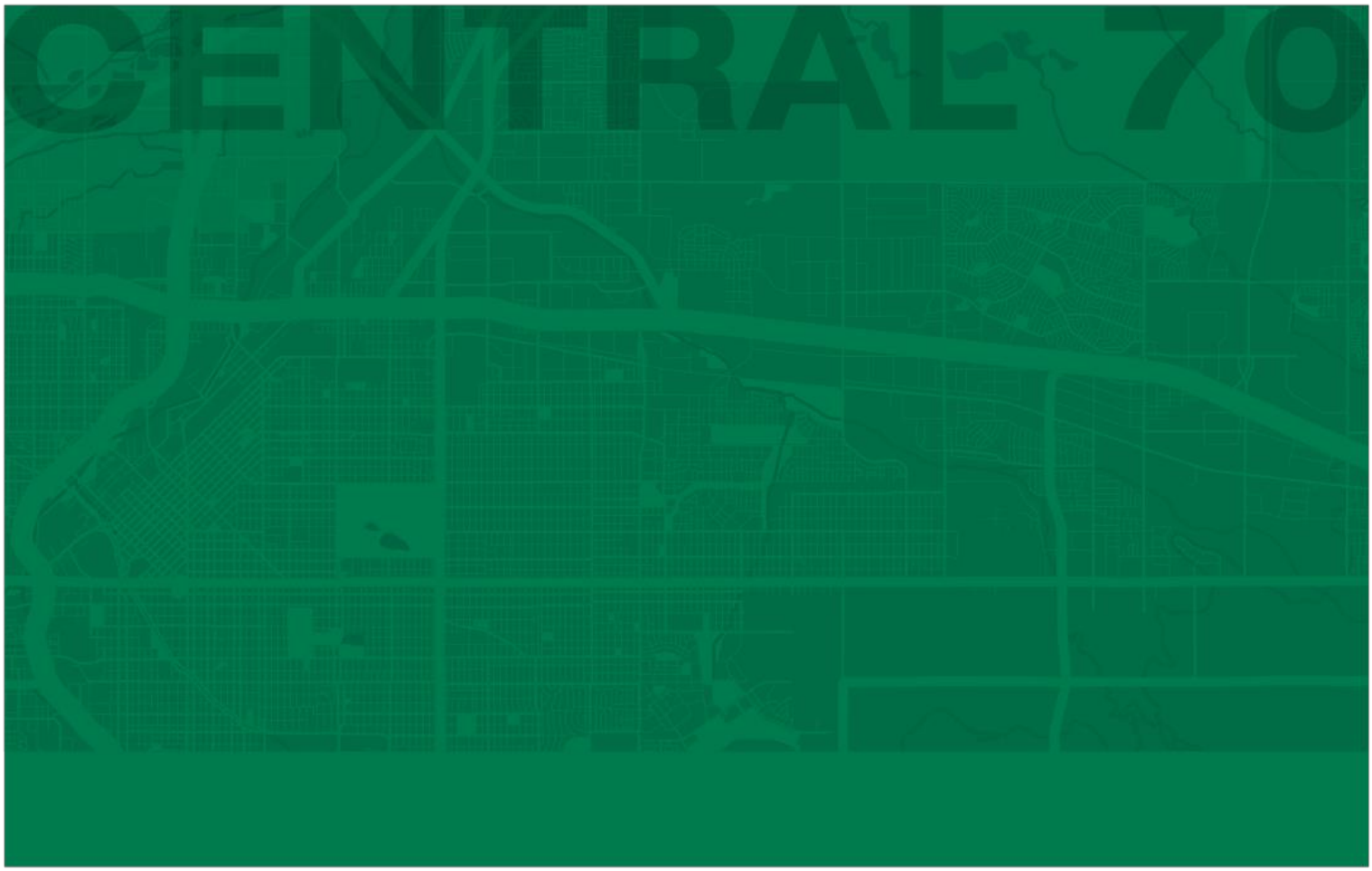


Kiewit meridiam PARTNERS

Central 70 Soil Characterization Results (April 23 to August 29, 2018)

SUBMITTED TO:
Colorado Bridge Enterprise
High Performance Transportation Enterprise
c/o Colorado Department of Transportation

RECORD OF REVISIONS

Revision number	Date issued	Pages affected	Comments
0	10/06/2018	All	Initial Submission
1	10/12/2018	Section 7	Revised Summary

Deliverable certification

As per Schedule 8, Section 6.7.3 Document and Data Approval, I Megan Wood as the originator of this deliverable certify this deliverable to be complete and meets the requirements of the Project Agreement.

Megan Wood	Megan Wood Digitally signed by Megan Wood DN: C=US, E=megan.wood1@kiewit.com, O=Kiewit Infrastructure Co, CN="Megan Wood" Reason: I am approving this document Date: 2018.10.12 13:02:39-08'00'	10/12/2018
Printed Name of Originator	Signature of Originator	Date

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ACRONYMS

ACM	Asbestos Containing Material
bgs	Below Ground Surface
BRMMP	Beneficial Reuse and Materials Management Plan
CDOT	Colorado Department of Transportation
CDPHE	Colorado Department of Public Health and Environment
COC	Chain of Custody
DRO	Diesel Range Organics
EC	Environmental Covenant
GPS	Global Positioning System
GPV	Groundwater Protection Values
KMP	Kiewit Meridiam Partners
mg/kg	Milligrams per Kilogram
MMP	Materials Management Plan
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PA	Project Agreement
PAHs	Polycyclic Aromatic Hydrocarbons
PID	Photo Ionization Detector
QA	Quality Assurance
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RHM	Recognized Hazardous Material
ROW	Right of Way
RPD	Relative Percent Difference
RSL	Regional Screening Level
RSL-I	Regional Screening Level – Industrial
RSL-R	Regional Screening Level – Residential
SAP	Sampling and Analysis Plan
TCLP	Toxicity Characteristic Leachate Procedure
TPH	Total Petroleum Hydrocarbons
mg/kg	Milligrams per Kilogram
USEPA	United States Environmental Protection Agency

1. Purpose

The purpose of this *Central 70 Pre-Construction Soil Characterization Report* (April 23 to August 29, 2018) is to present soil data collected in accordance with the Kiewit Meridiam Partners (KMP) *Early Work Materials Management Plan (MMP), Central 70, Denver, CO* dated February 27, 2018; *KMP Sampling and Analysis Plan (SAP), Central 70, Denver, CO, Environmental & Geotechnical Soil Drilling, Test Pit Excavation, and Hazardous Building Materials Sampling* dated March 29, 2018; Colorado Department of Public Health and Environment (CDPHE) *Beneficial Reuse and Materials Management Plan* (BRMMP) dated September 12, 2017; and *Central 70 Project: Project Agreement* (PA), Schedule 17, in order to characterize soil within the project limits for potential recognized hazardous materials (RHMs) at the Central 70 Project (Project) in advance of construction activities and to streamline materials management. Ultimately, the presented data and results will be used in accordance with KMP's *Materials Management Plan, Central 70, Denver, CO* dated May 31, 2018 to ensure proper management, disposal, and tracking of RHMs.

1.1 LOCATION AND DESCRIPTION OF THE PROJECT

The Project is located along the I-70 corridor between I-25 and Chambers Road in Denver and Adams Counties, in Denver, Colorado (see map provided as Figure 1). The Project is surrounded by residential, commercial, and industrial areas. The Project consists of reconstructing a 10-mile segment of I-70 from Brighton Boulevard to I-270, including adding one express lane in each direction, removing the 53-year old viaduct, and lowering the interstate between Brighton Boulevard and Colorado Boulevard; constructing a 4-acre cover park over a portion of the lowered interstate; and widening I-70 from I-270 to Chambers Road to add one express lane in each direction.

The Project is divided into two areas, defined by predominant current land use and planned construction activities, as follows:

Table 1 – Project Areas

Area Name	Location Description	Potential for RHMs	Major Construction Activities
Central 70 – East	East of Colorado Blvd. and west of Chambers Road	Low to moderate	Emplacement, net fill of soil
Central 70 – West	West of Colorado Blvd. and east of I-25	Moderate to high	Excavation, net cut of soil

1.2 PROJECT ROLES AND RESPONSIBILITIES

The key parties responsible for implementation of the work described in this report were:

Table 2 – Key Roles

Entity	Key Tasks
KMP	Coordination, planning, and data/report review
Family Environmental	Drilling oversight, soil sampling, laboratory coordination, quality assurance/quality control (QA/QC)
Vine	Drilling services

SGS Accutest	Laboratory analytical services
GHD Services, Inc.	Report compilation

2. Soil Sampling

The purpose of this section is to describe the methods used to collect and analyze soil samples for the purpose of site characterization. In general, the methods used were in accordance with the SAP. Any exceptions are described in this section. Soil sampling activities commenced April 23, 2018 and were completed on August 29, 2018.

2.1 LOCATIONS

Soil samples were collected from regularly-spaced grids across the Project, as shown in Figure 2 and generally as outlined in the SAP. Areas of anticipated excavation within the right of way (ROW) were divided into the grid pattern. The location of the borings within each cell was chosen based on locations of utilities, access, and other present features.

- In Central 70 – East, one soil boring per cell was advanced to the average depth of excavation for that feature or a mini excavator was used to collect soil for that feature from within the area of the planned excavation. The soil column from that boring or bucket of soil was homogenized, and one soil sample was collected per 500-cy cell. If a sample indicated that the soil from a soil column or bucket was homogeneous, then no additional borings or sampling was conducted in this cell. If the initial soil boring or bucket of soil indicated that the soil column was heterogeneous, then one soil boring was advanced to the planned depth of excavation or a mini excavator was used to collect soil for that feature within the area of the planned excavation and two additional soil borings or buckets of soil were completed in the cell for a total of three borings or buckets. The two additional borings or buckets of soil were collected using a hand auger or mini excavator to a depth of no greater than 5 feet or to the planned depth of excavation, whichever was shallower, at the bottom of the excavation and within the location of the side street. One composite sample was collected from these three borings or buckets within the 500-cy cell
- In Central 70 – West, each mainline area (ML) was divided into 50 x 50-ft. cells., and side street area (ST) was divided into 6,750-sq. ft. cells
- Initially, every other cell of the grid pattern was sampled. This reduced frequency of sampling correlates to one sample every 1,000 cy
- The cells that were not initially sampled, were not sampled if the sample results from the cells surrounding the unsampled cell were below the Regional Screening Levels – Industrial (RSL-Is). Otherwise, the cell that was not sampled was subsequently sampled. If during excavation activities, there are any signs of debris or contaminated soil in the cells that were not sampled, the soil from that cell will be excavated, stockpiled, and sampled.

Parcels identified in Schedule 17 Appendix B of the PA, will be evaluated for future sampling of unsaturated native soil, generally below 5 feet bgs. KMP will review the associated Phase I

Environmental Site Assessments and identify specific parcels from this list which warrant sampling. Those parcels will be sampled when excavation of this material occurs. Sampling will also be conducted if field screening indicates the potential presence of impacts.

2.2 LOCATION PREPARATION

KMP and Family Environmental marked soil boring locations in the field with flagging on stakes, nails with whiskers, or paint on hard surface. The investigation locations were photographed and a handheld global positioning system (GPS) unit was used to record the location (see Daily Monitoring Technician Reports included as Appendix A. KMP's drilling contractor, Vine, initiated the utility notification process for the drilling locations. Public and private utility locators marked the investigation locations before drilling or ground breaking occurred.

2.3 FIELD SCREENING

Field screening was conducted at each sampling location and included assessing the following:

- Visual staining, including greying (gray material, indicating reducing subsurface conditions), or dark coloration
- Presence of non-soil materials (e.g. debris, sludge, powders, coal-based fill);
- Presence of distinguishable odor
- Discrete layers in soil cross section that generally appear out of place

Additionally, soil was collected and screened using the headspace technique, as described further in Section 2.4. Field screening results are documented in Daily Monitoring Technician Reports in Appendix A.

2.4 SAMPLE COLLECTION

Vine utilized a Geoprobe® rig and advanced soil borings to a minimum depth of 6 inches below ground surface (bgs) up to a depth of 30 feet using a direct push split-spoon sampler to collect continuous soil samples. Vine and Family Environmental also utilized a mini excavator and hand auguring when necessary, to better access certain locations.

Upon retrieval of the soil sample, Family Environmental conducted immediate field screening with a photo ionization detector (PID) equipped with a 10.6 electron-volt lamp for organic vapors. Soil samples were logged in the field for color, texture, and moisture content using the unified soil classification system. A representative soil sample was collected and sealed in a new plastic bag and allowed to equilibrate for PID headspace analysis. The results of the headspace analysis and the lithologic description were recorded in the Daily Monitoring Technician Reports and provided in Appendix A.

In Central 70 – East, Family Environmental collected one composite sample of all the soil from 1 to 2 feet bgs from each boring or mini excavator bucket and composited by mixing the soil until homogeneous, and collecting a sample from the mixed soil. Soil samples were place in labeled, laboratory-supplied glassware, and stored immediately on ice.

In Central 70 – West, Family Environmental collected and composited samples within 0-6 inch and 6-12 inch soil intervals. For the ML cells, a 4- or 5-point composite sample was collected from each of the two intervals by mixing soil from 4 of 5 cells from the same interval until homogeneous, and collecting a sample from the mixed soil. For the ST cells, a 2-point composite sample was collected from each of the two intervals by missing soil from 2 cells from the same interval until homogeneous, and collecting a sample from the mixed soil. For soil either one foot below the surface, or one foot below the road base of pavement, to a minimum depth of 5 feet bgs, one composite soil sample was collected of all the soil in the soil column from each boring in each cell. If native soil is below 5 feet bgs, then an additional composite sample was collected from the next deeper interval, in subsequent 5 foot intervals, until native soil or the lower depth of proposed excavation was reached, whichever was encountered first.

Soil samples were place in labeled, laboratory-supplied glassware, and stored immediately on ice.

Boreholes were abandoned using grout and restoring the ground surface to the surrounding condition.

2.5 INVESTIGATION-DERIVED WASTE CHARACTERIZATION AND DISPOSAL

At each investigation location situated west of Colorado Boulevard, remaining soil from each soil boring after all samples were collected were containerized, characterized, and transported for off-site disposal at a CDPHE-approved landfill facility.

Containerized soil is currently staged at Vine's yard awaiting transportation to an off-site CDPHE approved landfill.

3. Laboratory Analysis

Soils samples were submitted to SGS Accutest Laboratory for analysis of:

- Polycyclic Aromatic Hydrocarbons (PAHs) by United States Environmental Protection Agency (USEPA) Method 8270SIM
- Volatile Organic Compounds (VOCs) by USEPA Method 8260B
- Resource Conservation and Recovery Act (RCRA) 8 metals by USEPA Method 6010B/7041
- Individual analytes by Toxicity Characteristic Leachate Procedure (TCLP)
    - When Rule of 20 exceeded

Based on field screening results, analysis of the following was determined to be unnecessary:

- Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) by USEPA Method 8015
- PCBs using USEPA Method 8082

Copies of laboratory reports and chains of custody (COCs) will be compiled and provided under separate cover at the completion of all characterization sampling.

4. Analytical Results

All samples were collected and analyzed for the comparison to the following criteria:

- CDPHE Groundwater Protection Values (GPVs) (CDPHE 2014b)
- USEPA Regional Screening Levels – Residential (RSL-Rs) (May 2018)
- USEPA RSL-Is (May 2018)
- TCLP Rule of 20
- Maximum Concentration of Contaminants for the Toxicity Characteristic (USEPA 2006) (applicable only if TCLP analysis run)
- Non-impacted/unrestricted reuse value for arsenic at 11 milligrams per kilogram (mg/kg)
- Impacted/restricted reuse value has been set at 35 mg/kg

The following subsections provide a summary of exceedances. Summary tables of the analytical data with comparison to the above criteria are provided in Appendix B. Locations with exceedances are depicted on Figures 3A through 3J, Figures 4A through 4BD, Figures 5A through 5AN, and Figures 6A through 6N.

4.1 POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

The following is a list of PAH exceedances from the top 12 inches of soil. All results were below GPVs.

- Benzo(a)pyrene concentrations exceeded the RSL-R of 0.11 mg/kg milligrams per kilogram (mg/kg), ranging from 0.111 to 1.48 mg/kg in 89 soil samples
- Benzo(a)pyrene concentrations exceeded the RSL-I of 2.1 mg/kg, ranging from 2.51 to 515 mg/kg in 22 soil samples
- Benzo(b)fluoranthene concentrations exceeded the RSL-R of 1.1 mg/kg, ranging from 1.39 mg/kg to 6.35 mg/kg in 10 soil samples
- Benzo(b)fluoranthene concentrations exceeded the RSL-I of 21 mg/kg, at 1,660 mg/kg in one soil sample
- Dibenzo(a,h)anthracene concentrations exceeded the RSL-R of 0.11 mg/kg, ranging from 0.113 mg/kg to 0.544 mg/kg.in 11 soil samples
- Indeno(1,2,3-cd)pyrene exceeded the RSL-R of 1.1 mg/kg, ranging from 1.4 mg/kg to 2.47 mg/kg in 5 soil samples
- Benzo(a)anthracene concentrations exceeded the RSL-R of 1.1 mg/kg, ranging from 1,410mg/kg to 3.24 mg/kg in 7 soil samples.

Additional analyses to confirm the following exceedences of GPVs are still pending from the laboratory for the following sample: CSB-ML37-0'-0.5' (May 16, 2018).

- 1,3,5-Trimethylbenzene concentrations exceeded the GPV of 23 mg/kg at 39.9 mg/kg

- 1-Methylnaphthalene concentration exceeded the GPV of 0.81 mg.kg at 3.17 mg/kg

The following is a list of PAH exceedances from 12 inches and below.

- Benzo(a)pyrene concentrations exceeded the RSL-R of 0.11 mg/kg milligrams per kilogram (mg/kg), ranging from 0.113 to 1.22 mg/kg in 57 soil samples
- Benzo(a)pyrene concentrations exceeded the RSL-I of 2.1 mg/kg, ranging from 3.37 to 484 mg/kg in 11 soil samples
- Benzo(b)fluoranthene concentrations exceeded the RSL-R of 1.1 mg/kg, ranging from 1.19 mg/kg to 6.42 mg/kg in 4 soil samples
- Dibenzo(a,h)anthracene concentrations exceeded the RSL-R of 0.11 mg/kg, ranging from 0.12 mg/kg to 0.508 mg/kg.in 5 soil samples
- Indeno(1,2,3-cd)pyrene exceeded the RSL-R of 1.1 mg/kg, ranging from 1.83 mg/kg to 2.27 mg/kg in 2 soil samples
- Benzo(a)anthracene concentrations exceeded the RSL-R of 1.1 mg/kg, ranging from 1.66- mg/kg to 3.14 mg/kg in 3 soil samples.

4.2 RCRA 8 METALS

The following is a list of metals exceedances from the first 12 inches of soil.

- Arsenic concentrations exceeded the non-impacted/unrestricted reuse value of 11 mg/kg, ranging from 11.6 mg/kg to 26.3 mg/kg in 25 soil samples
- Arsenic concentrations exceeded the impacted/restricted reuse value of 35 mg/kg, ranging from 42.7 mg/kg to 66.6 mg/kg in 5 soil samples
- Lead concentrations exceeded the RSL-R of 400 mg/kg, ranging from 412 mg/kg to 782 mg/kg in 8 soil samples

The following is a list of metals exceedances from 12 inches and below.

- Arsenic concentrations exceeded the non-impacted/unrestricted reuse value of 11 mg/kg, ranging from 11.1 mg/kg to 28 mg/kg in 24 soil samples
- Arsenic concentrations exceeded the impacted/restricted reuse value of 35 mg/kg, ranging from 37.8 mg/kg to 180 mg/kg in 9 soil samples
- Lead concentrations exceeded the RSL-R of 400 mg/kg, ranging from 424 mg/kg to 701 mg/kg in 5 soil samples
- Lead concentrations exceeded the RSL-I of 800 mg/kg, ranging from 1000 mg/kg to 1450 mg/kg in 5 soil samples

4.3 VOLATILE ORGANIC COMPOUNDS (VOCS)

VOCs were not detected in the soil samples from the top 12 inches of soil, or below 12 inches of soil that were analyzed during the soil characterization sampling summarized in this report.

4.4 TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP)

One TCLP sample result for ST15-6-1'-5' exceeded the CO GWS Limit for Lead at 12 mg/kg and will be retested when material is excavated due to the sample being comprised of mostly slag material that is not representative of the soil in the cell.

Seven lead TCLP samples are pending results for CSB-ST45-0'-0.5' CSB-ST73-0.5'-1.0', CSB-ML81-0.5'-1.0', CSB-ST74-0.5'-1.0', CSB-ML81-0'-0.5', CSB-ST73-1-1'-2', and CSB-ST73-0'-0.5'

5. Recognized Hazardous Materials Results

The following section summarizes the classification of materials, based upon the analytical results, for all depths. Figures 3A through 3J, Figures 4A through 4BD, Figures 5A through 5AN, and Figures 6A through 6N depicts this information across the grids.

Analytical results were compared to the RHM classifications set forth in the MMP. Figure 7 provides a summary of all results by reuse category. Figure 8 provides a summary of analytical detections that exceed the RSL-R and/or RSL-I by analyte. Table 3 provides a summary of RSL-I exceedances.

Figure 7. RHM Summary by Percentage

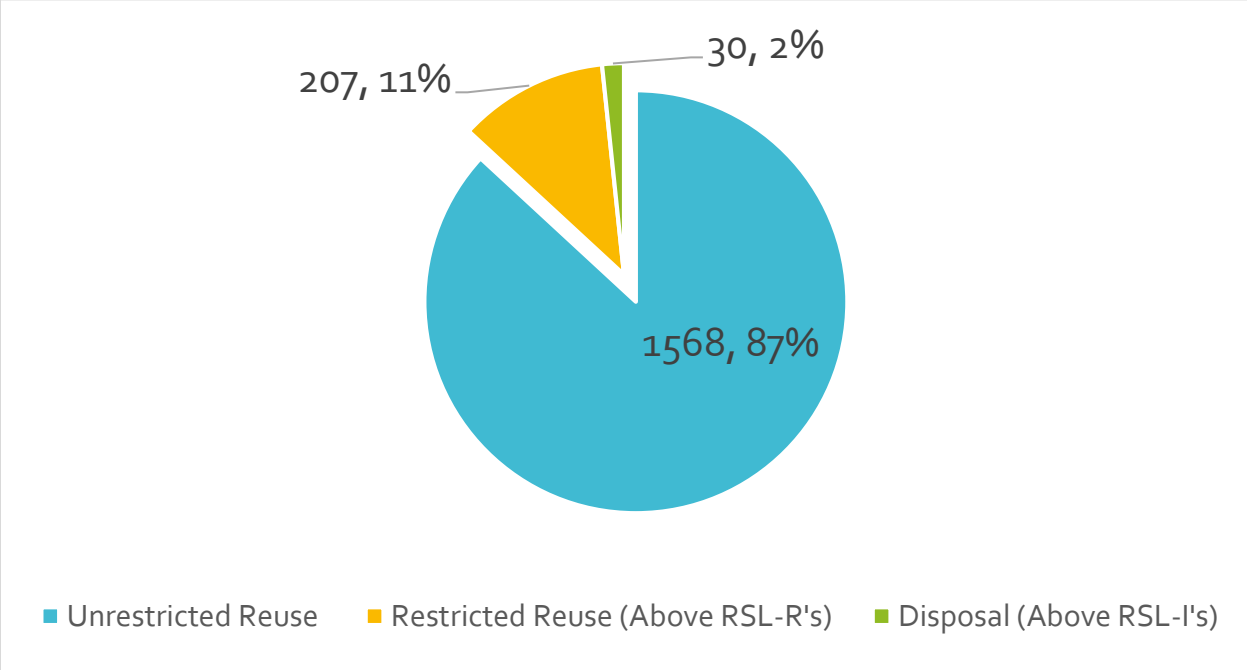


Figure 8. Analyte Summary by Percentage

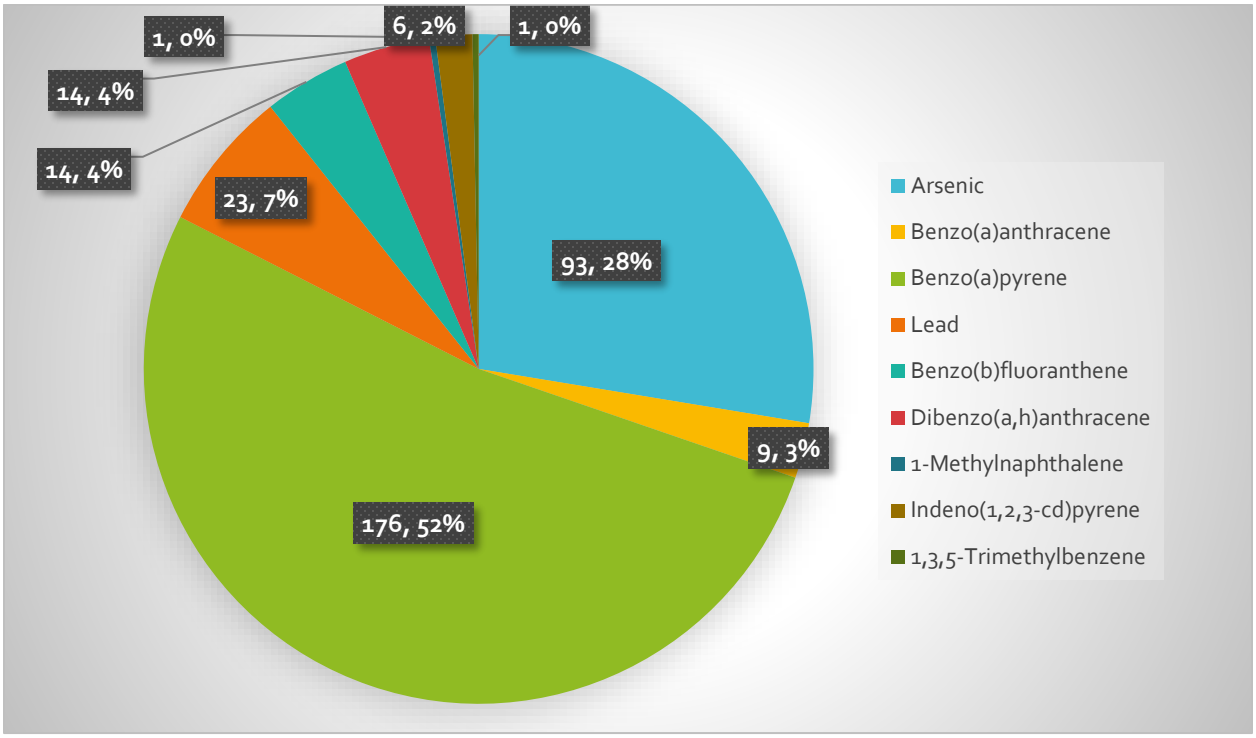


Table 3. RSL-I Exceedances

Location	Date	RHM Substance
ST13-4-5 (12”-5’)	04/24/18	Arsenic & Lead
ST15-6-5 (12”-5’)	04/25/18	Arsenic & Lead
ST8-2 (6”-12”)	05/09/18	Arsenic, Benzo(a)pyrene, & Lead
ML37-5 (0”-6”)	05/16/18	Arsenic, 1-Methylnaphthalene, 1,3,5-Trimethylbenzene
ST9-1-2 (12”-3’)	05/08/18	Arsenic, Benzo(a)pyrene, & Lead
ML81 (0”-12”)	06/01/18	Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, & Indeno(1,2,3-cd)pyrene
ST73 (0”-12”)	06/13/18	Arsenic, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, & Indeno(1,2,3-cd)pyrene
ST73-1-2	06/07/18	Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, & Indeno(1,2,3-cd)pyrene
ST74 (0”-12”)	06/07/18	Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, & Indeno(1,2,3-cd)pyrene
ST45 (0”- 6”)	6/21/18	Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(a)pyrene, & Dibenzo(a,h)anthracene

ML25 (0”-6”)	7/10/18	Arsenic & Benzo(a)pyrene
ST21 (6”-12”)	7/10/18	Arsenic & Benzo(a)pyrene
ML27-2-5	7/10/18	Arsenic & Lead
ML25-7-5	7/10/18	Arsenic
ML26-2-5	7/10/18	Arsenic & Benzo(a)pyrene
ST21-3-2	7/10/18	Arsenic, Benzo(a)pyrene, & Lead
ML27 (0”-12”)	7/12/18	Arsenic, Benzo(a)pyrene, Benzo(b)fluoranthene, & Lead
ST15-7-5	7/12/18	Arsenic & Benzo(a)pyrene
ST73-2-2	7/12/18	Benzo(a)pyrene
ML23-4-5	7/26/18	Arsenic & Lead

6. Quality Assurance/Quality Control (QA/QC)

Collected field QA/QC samples included equipment blanks, trip blanks, and duplicates. Laboratory QC samples were used to monitor the precision and accuracy of the laboratory’s analytical procedure. The results of the QA/QC analyses are described below.

6.1 EQUIPMENT BLANKS

One equipment blank was prepared a minimum of one per day. The equipment blanks were collected to be representative of the equipment used to collect the samples.

- Naphthalene was detected for the equipment blank collected on July 23, 2018 in an estimated concentration. Family Environmental concluded that this detection did not compromise the quality of the data for samples obtained that day.
- Estimated values of ethylbenzene and toluene were detected in the equipment blank obtained on July 26, 2018. Neither of these constituents were detected within the sample set for that day. Family Environmental concluded that the estimated concentrations for these constituents are due to laboratory contamination and do not compromise the data for sample obtained that day.
- Barium was detected in the equipment blank obtained on August 16, 2018 at a level of 11.6 µg/L. No exceedances for barium were detected for the samples collected that day. Family Environmental concluded that this low detection of barium did not compromise the data for the samples obtained that day.

In summary, equipment blank results indicate that field decontamination procedures were overall acceptable and did not impact the usability of data.

6.2 TRIP BLANKS

A minimum of one trip blank was submitted to the laboratory for analysis with every shipment of samples for VOC analysis. The samples comprising the data for SGS Accutest report DA5670 were submitted without a trip blank. These samples were being held with another sample shipment which did contain a trip

blank. In order to meet hold time criteria, select samples were taken from the trip blanked shipment and transferred to a small cooler for immediate delivery to the laboratory No VOCs were detected for any of the samples analyzed. Family Environmental concluded that this deviation does not comprise the quality of the data for report DA5670.

All other trip blank data has passed quality control criteria indicating no cross-contamination of samples during shipping/handling procedures.

6.3 TEMPERATURE BLANK

For each cooler that was shipped or transported to the analytical laboratory, a 40-millimeter vial was be included that was marked "temperature blank." This blank was used by the sample custodian to check the temperature of samples upon receipt. Each temperature blank submitted to the analytical laboratory has met sample temperature acceptance criteria indicating adequate temperature preservation during handling/transport.

6.4 DUPLICATES

Duplicate samples were obtained at a quantity of at least one for every twenty samples collected. Family Environmental performed a Relative Percent Difference (RPD) study for duplicates data and concluded that the inhomogeneity of the PAHs resulted in a wide range of RDP results. However, laboratory duplicates appear to be substantially similar for all duplicates analyzed. Family Environmental concluded, upon visual review of the analytes and concentrations detected, that there is not a quality control issue with duplicate samples.

6.5 MATRIX SPIKE (MS)/MATRIX SPIKE DUPLICATES (MSD)

Laboratory QC samples were used to monitor the precision and accuracy of the laboratory's analytical procedure through analysis of QC samples. Typically, laboratory QC samples consist of MS/MSD samples for organic analyses and MS/DS for inorganic analyses. A MS and MSD was prepared at a ratio of one MS/MSD for every 20 environmental samples collected for each analysis. The results of the MS/MSD analysis was used to determine laboratory accuracy based on the percent of the spiked compounds recovered, and precision by assessing the relative percent differences between matrix spikes and matrix spike duplicates. All data has passed MS/MSD criteria.

6.6 HOLD TIMES

The following samples were run outside of holding time for method SW846-8260B; DA6056-54 and DA6056-55. The following samples were extracted outside of holding time for method SW846-8270C; DA6056-54 and DA6056-55. All other samples were analyzed within the recommended method holding time.

6.7 METHOD DETECTION LIMITS AND LABORATORY REPORTING LIMITS

The narrative regarding the following Reporting Limits for Arsenic (that are above RSL-R) were received from SGS Accutest on October 5, 2018. Elevated recording limits for Arsenic were the result of dilution factors for other constituents in the sampling protocol. All Arsenic levels were below 9 mg/kg except for two samples: CSB-EN-6 and CSB-ST38-3-1'5' with confirmed concentrations at 13.9 mg/kg and 12.8 mg/kg, respectfully.

A summary of the samples in question is found in the table below. The narrative provided by SGS Accutest is attached in Appendix C.

Client ID first 12 inches of soil	Date	Method Detection Limit (CDPHE 7/14)	Laboratory Reporting Limit
CSB-ML70-0'-0.5'	6/6/2018	11 mg/kg	< 12 mg/kg
CSB-ML70-0.5'-1.0'	6/6/2018	11 mg/kg	< 12 mg/kg
CSB-ST38-0'-0.5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST34-0.5'-1.0'	6/7/2018	11 mg/kg	< 12 mg/kg
CSB-ST74-0'-0.5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST74-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST76-0'-0.5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST76-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ML48-0'-0.5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ML48-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST38-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST39-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST41-0'-0.5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ML48D-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST26-3-0.5'-1.0'	5/24/2018	11 mg/kg	< 13 mg/kg
CSB-ST41-0.5'-1.0'	6/7/2018	11 mg/kg	< 12 mg/kg
CSB-ST79-0'-0.5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST79-0.5'-1.0'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST34-0'-0.5'	6/7/2018	11 mg/kg	< 12 mg/kg
CSB-EN-150-0'-1.0'	7/30/2018	11 mg/kg	< 12 mg/kg
CSB-EN-152-0'-1.0'	7/30/2018	11 mg/kg	< 12 mg/kg

Client ID 12 inches and below	Date	Method Detection Limit (CDPHE 7/14)	Laboratory Reporting Limit
CSB-ST39-6-5'-9'	6/6/2018	11 mg/kg	< 13 mg/kg
CSB-ST48-4-1'-3'	6/6/2018	11 mg/kg	< 12 mg/kg
CSB-ST49-3-1'-3'	6/6/2018	11 mg/kg	< 13 mg/kg
CSB-ST49-4-1'-3'	6/6/2018	11 mg/kg	< 12 mg/kg
CSB-ST38-3-1'-5'	6/6/2018	11 mg/kg	< 13 mg/kg
CSB-ST38-7-1'-5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST38-7-5'-10'	6/7/2018	11 mg/kg	< 14 mg/kg
CSB-ST38-7-10'-12'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST39-3-1'-5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST34-4-3'-5'	6/7/2018	11 mg/kg	< 12 mg/kg
CSB-ST36-3-1'-3'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST36-3-3'-5'	6/7/2018	11 mg/kg	< 12 mg/kg
CSB-ST36-1-1'-3'	6/7/2018	11 mg/kg	< 12 mg/kg
CSB-ST36-1-3'-5'	6/7/2018	11 mg/kg	< 13 mg/kg
CSB-ST95-3-10'-12'	6/20/2018	11 mg/kg	< 13 mg/kg
CSB-ST92-3-3'-5'	6/20/2018	11 mg/kg	< 13 mg/kg
CSB-ST99-1-1'-3'	6/20/2018	11 mg/kg	< 14 mg/kg
CSB-ST100-2-1'-5'	6/20/2018	11 mg/kg	< 13 mg/kg
CSB-ST100-5-1'-5'	6/20/2018	11 mg/kg	< 12 mg/kg
CSB-ST100-6-1'-5'	6/20/2018	11 mg/kg	< 13 mg/kg
CSB-ST101-1-1'-5'	6/20/2018	11 mg/kg	< 12 mg/kg
CSB-ST101-3-1'-5'	6/20/2018	11 mg/kg	< 12 mg/kg
CSB-ST101-4-1'-5'	6/20/2018	11 mg/kg	< 12 mg/kg
CSB-ST70-1-1'-3'	6/20/2018	11 mg/kg	< 12 mg/kg
CSB-ST70-3-1'-3'	6/20/2018	11 mg/kg	< 13 mg/kg
CSB-ST100D-6-1'-5'	6/20/2018	11 mg/kg	< 13 mg/kg
CSB-ST93D-9-1'-5'	6/20/2018	11 mg/kg	< 14 mg/kg
CSB-EN-6-0'-3'	6/21/2018	11 mg/kg	< 28 mg/kg
CSB-EN-30-0'-3'	6/22/2018	11 mg/kg	< 12 mg/kg
CSB-EN-38-0'-3'	6/22/2018	11 mg/kg	< 13 mg/kg
CSB-EN-28-0'-3'	6/22/2018	11 mg/kg	< 13 mg/kg
CSB-ML24-7-1'-5'	7/12/2018	11 mg/kg	< 13 mg/kg
CSB-ML24-7-5'-7'	7/12/2018	11 mg/kg	< 12 mg/kg

Client ID 12 inches and below	Date	Method Detection Limit (CDPHE 7/14)	Laboratory Reporting Limit
CSB-ML27-9-1'-5'	7/12/2018	11 mg/kg	< 15 mg/kg
CSB-ST15-3-1'-5'	7/12/2018	11 mg/kg	< 13 mg/kg
CSB-ST72-2-1'-3'	7/12/2018	11 mg/kg	< 13 mg/kg
CSB-ST73-2-1'-3'	7/12/2018	11 mg/kg	< 12 mg/kg
CSB-ML24D-1-1'-5'	7/12/2018	11 mg/kg	< 14 mg/kg
CSB-EN-154-0'-2.0'	7/26/2018	11 mg/kg	< 13 mg/kg

7. Summary

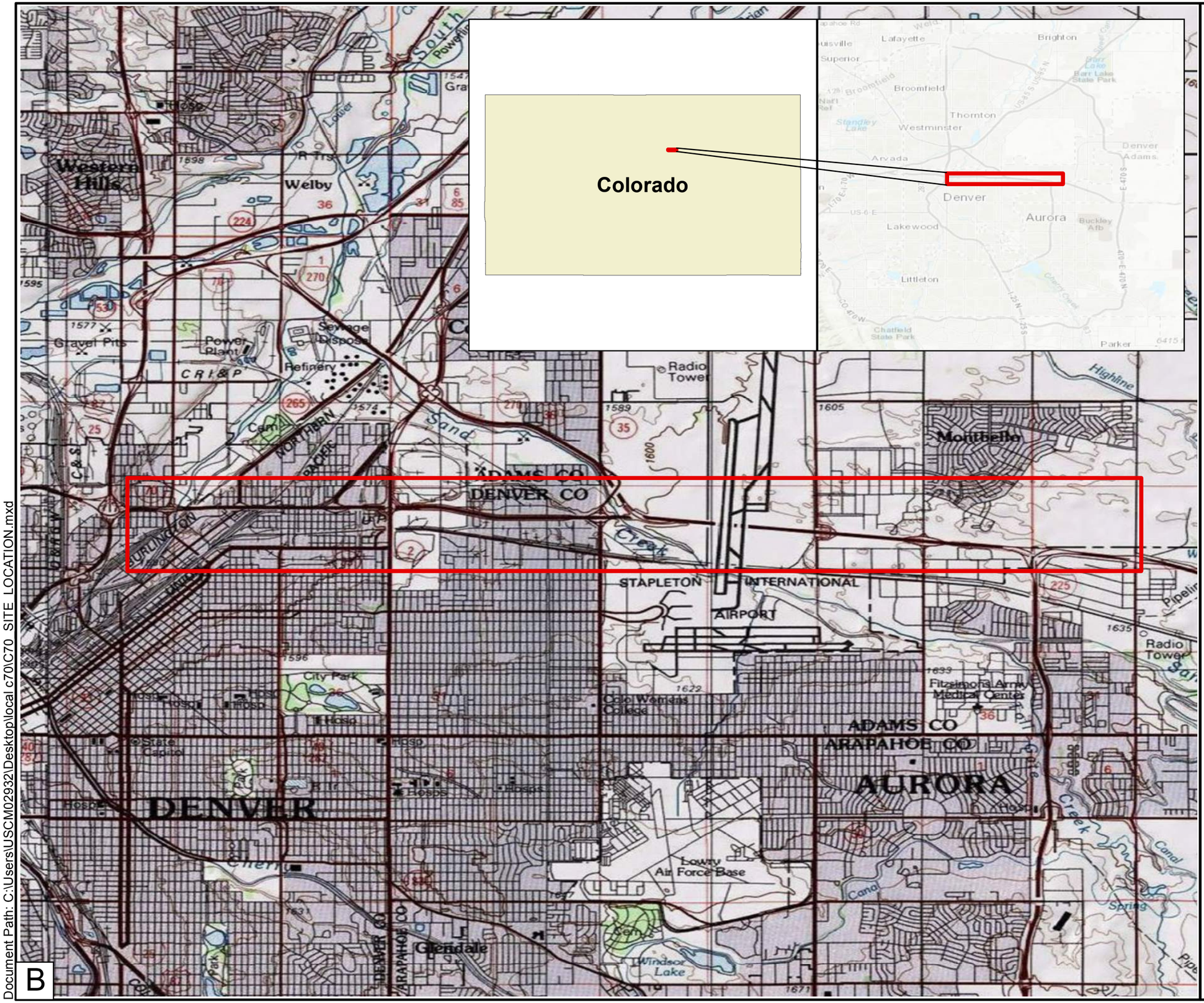
Soil collection and characterization was completed in accordance with the SAP and BRMMP. Any variances from these procedures have been noted and provided in Appendix C. Only confirmed analytical results are summarized in this report, which represent approximately 90% of the Project area. Sampling and results for limited areas are pending, including cells MLs 64, 85, 87, 89, 91, 92, 94, 95, 96, 98, 100, 101 and STs 28 and 40.

Confirmed analytical results for 1,803 total samples are summarized in this report have indicated exceedances for select PAHs and RCRA 8 metals above the RSL-R, representing an estimate of less than 20% of the total represented area as summarized in Section 4 of this report.

By characterizing the soil for the Project, KMP will be able to manage and reuse soils in the most environmentally sustainable method allowable while preventing exposure to personnel and the public. This characterization prior to Project excavation:

- Reduces the exposure of trucking non-impacted soils to landfills
- Minimizes stockpiling of soils throughout the corridor
- Limits the potential for dust exposure to the adjacent public
- Maintains compliance with environmental requirements and the BRMMP requirements

FIGURES



APPROXIMATE EXTENT OF PROJECT AREA

N

0 3,000 6,000 12,000

SCALE IN FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK AND WHITE COPIES MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

NOTICE: THIS DRAWING HAS BEEN PREPARED UNDER THE DIRECTION OF A PROFESSIONAL. DO NOT ALTER THIS DOCUMENT IN ANY WAY WITHOUT THE WRITTEN CONSENT OF WSP USA INC.

Drawn By: CDM
Checked:
Approved:
MXD Name:

CDOT CENTAL 70 PROJECT
DENVER, COLORADO

PREPARED FOR
CDOT
DENVER, COLORADO

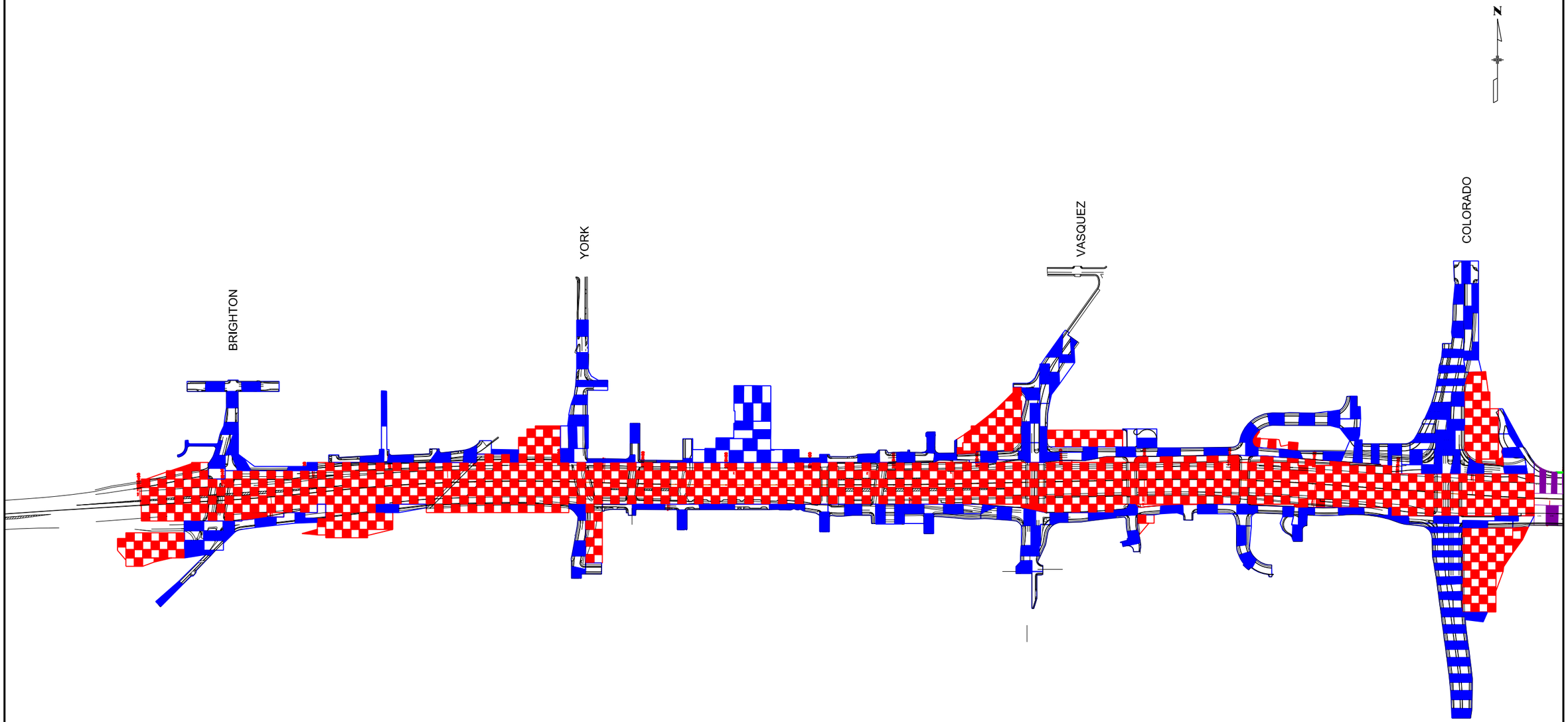
FIGURE 1

SITE LOCATION

WSP USA Inc.
5613 DTC PARKWAY
SUITE 500
GREENWOOD VILLAGE, CO 80111
TEL: +1 303.850.9200

Document Path: C:\Users\USCM02932\Desktop\local c70\C70 SITE LOCATION.mxd

B



RED - 5FT DEPTH CELL
BLUE - 2FT DEPTH CELL
PURPLE - LINEAR APPLICATION
ORANGE - 0.5FT TOP CELL
YELLOW- 1FT TOP CELL
GREEN - ITS DUCT CELL

Author: TK		Sheet Revisions		
Print Date: 02/05/2018		Date:	Comments	Init.
File Name: grid pattern_2.dgn				

Kiewit meridiam PARTNERS

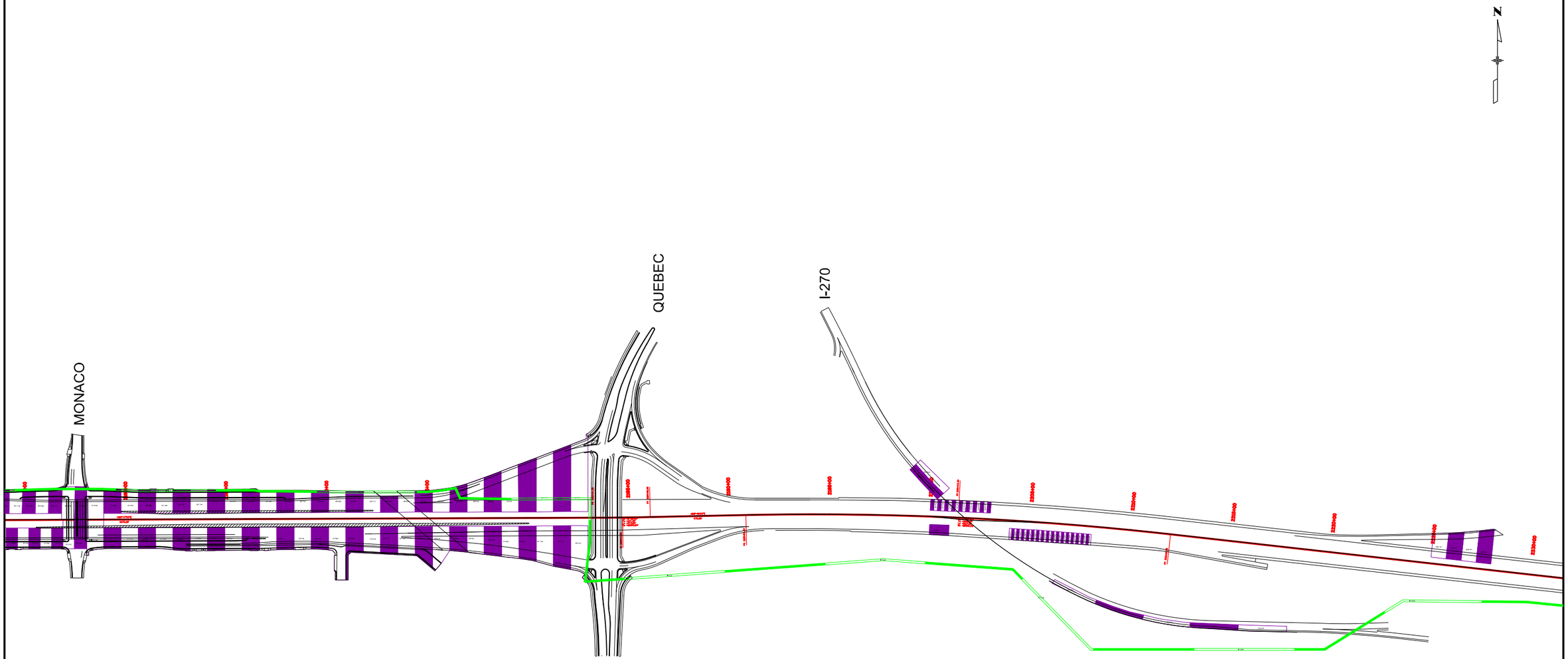
Central 70

CENTRAL 70

FIGURE 8A - SHALLOW UNSATURATED SOIL
REDUCED FREQUENCY GRID
SAMPLE LOCATIONS

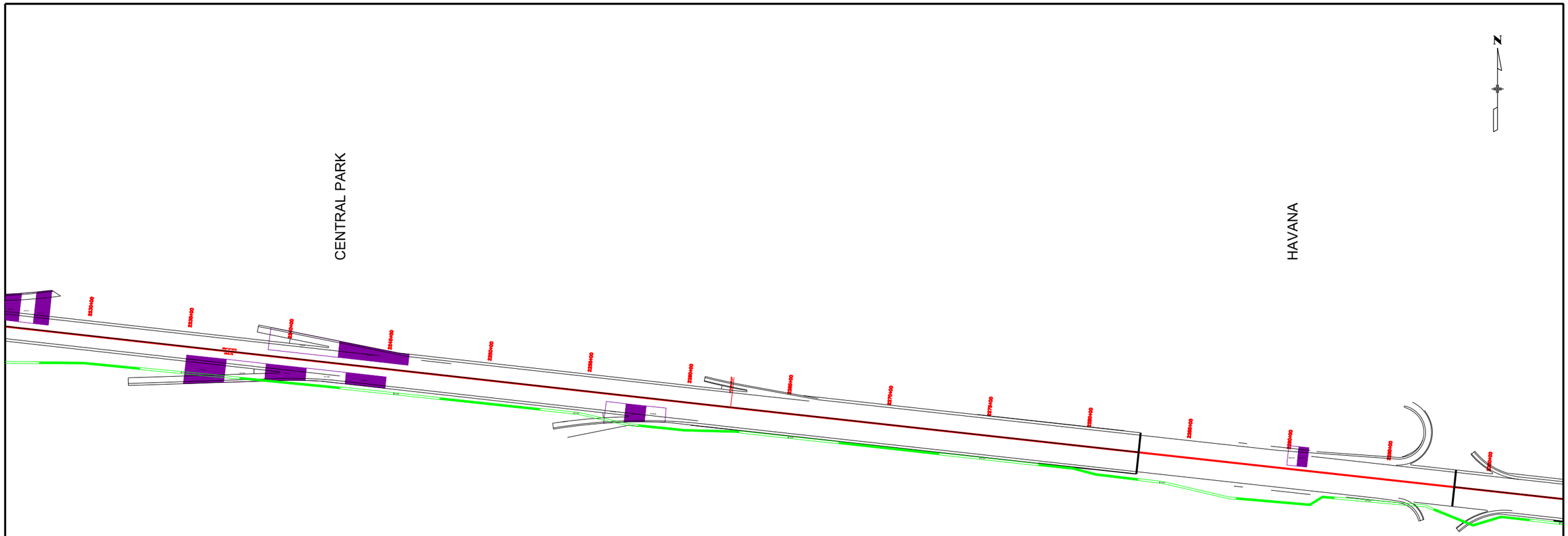


Author: TK	Sheet Revisions			Kiewit meridiam PARTNERS / Central 70
Print Date: 02/05/2018	Date:	Comments	Init.	CENTRAL 70
File Name: grid pattern_2.dgn				FIGURE 8B - SHALLOW UNSATURATED SOIL REDUCED FREQUENCY GRID SAMPLE LOCATIONS
				Sheet Number 10 of 15



RED - 5FT DEPTH CELL
BLUE - 2FT DEPTH CELL
PURPLE - LINEAR APPLICATION
ORANGE - 0.5FT TOP CELL
YELLOW- 1FT TOP CELL
GREEN - ITS DUCT CELL

Author: TK		Sheet Revisions			FIGURE 8C - SHALLOW UNSATURATED SOIL REDUCED FREQUENCY GRID SAMPLE LOCATIONS
Print Date: 02/05/2018		Date:	Comments	Init.	
File Name: grid pattern_2.dgn					Sheet Number 11 of 15
					CENTRAL 70



RED - 5FT DEPTH CELL
BLUE - 2FT DEPTH CELL
PURPLE - LINEAR APPLICATION
ORANGE - 0.5FT TOP CELL
YELLOW- 1FT TOP CELL
GREEN - ITS DUCT CELL

0' 250' 500' 1000'

Author: TK
Print Date: 02/05/2018
File Name: grid pattern_2.dgn

Sheet Revisions

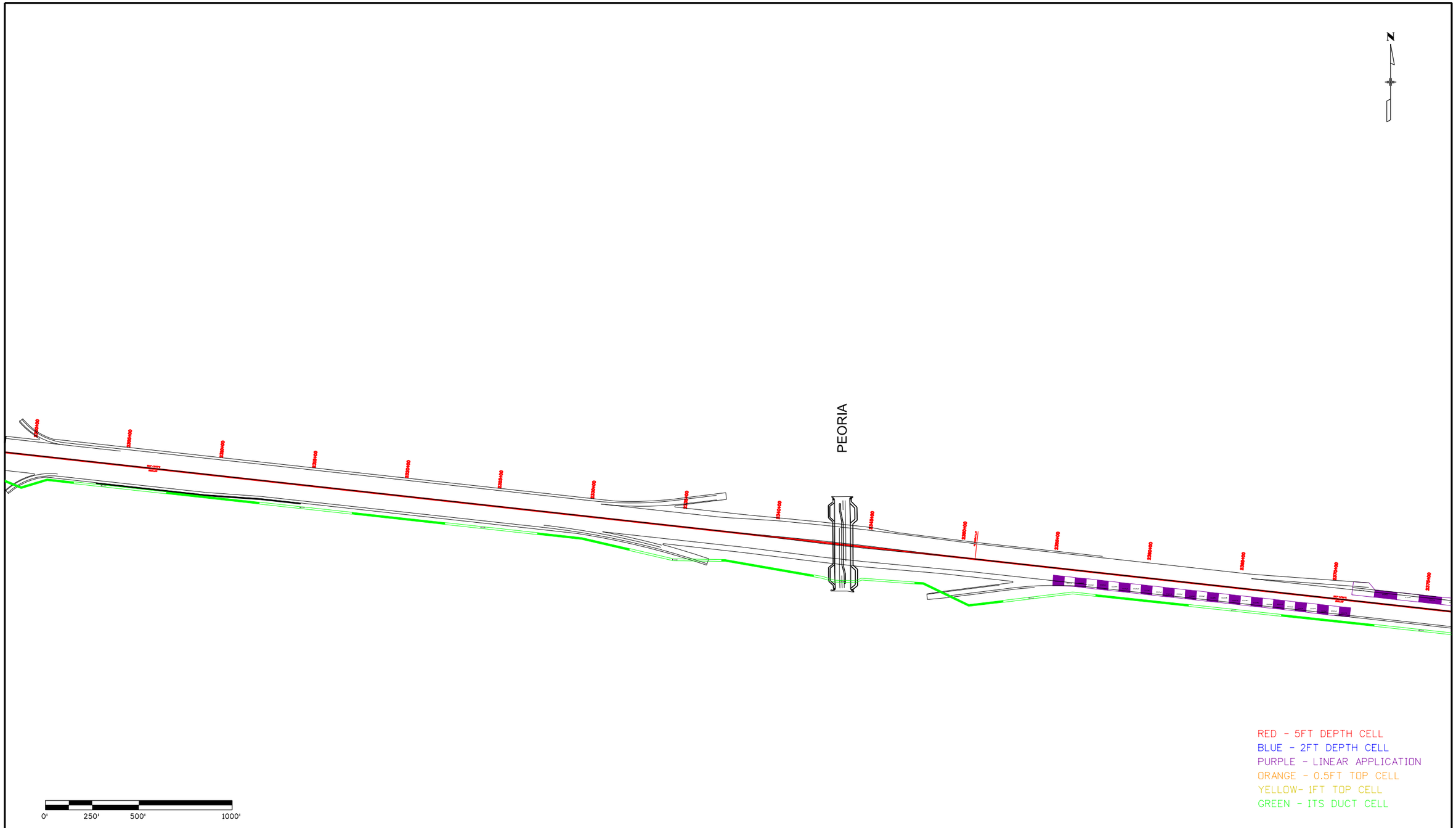
Date:	Comments	Init.

Kiewit meridiam PARTNERS

Central 70

CENTRAL 70

FIGURE 8D - SHALLOW UNSATURATED SOIL
REDUCED FREQUENCY GRID
SAMPLE LOCATIONS

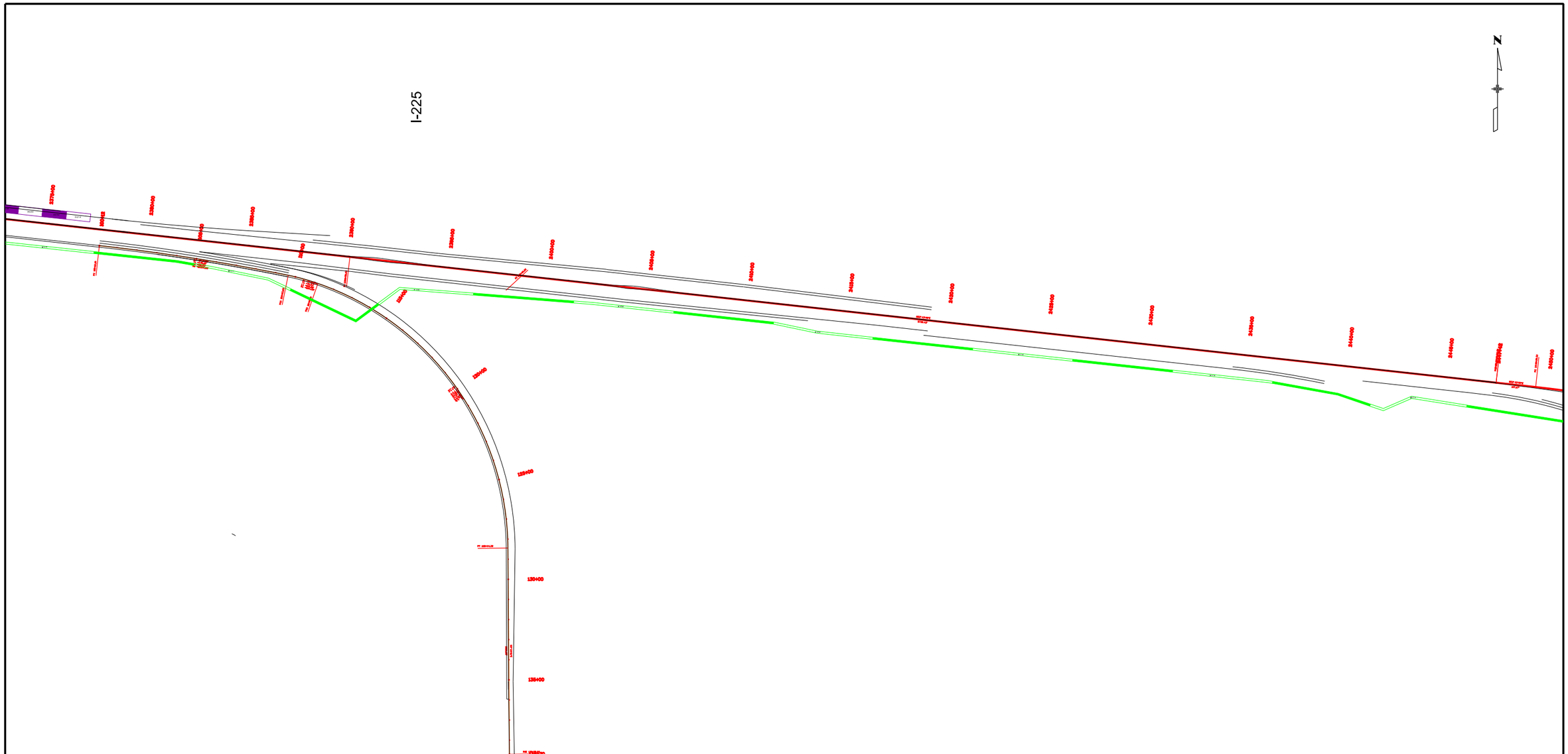


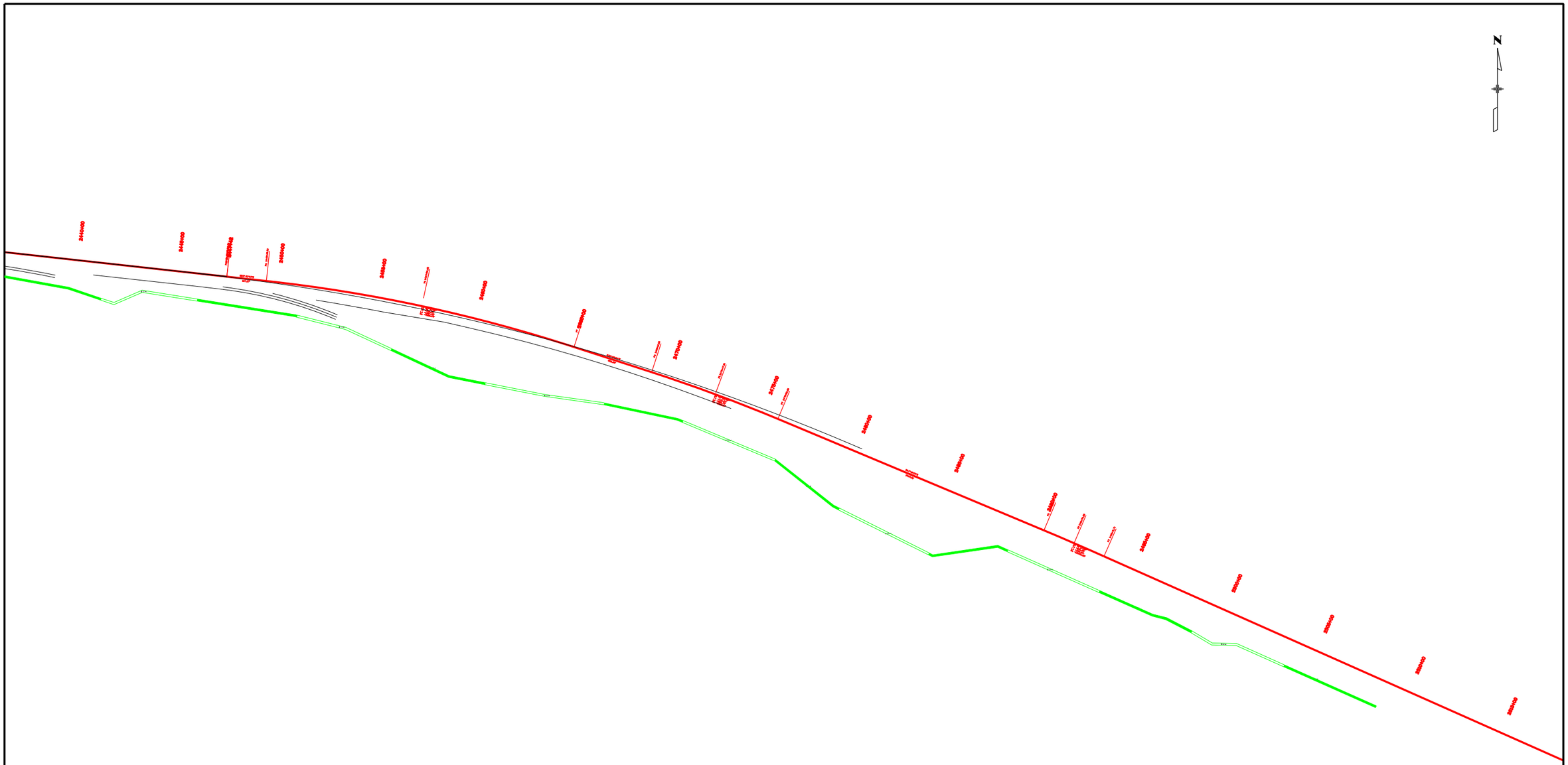
Author: TK	Sheet Revisions			FIGURE 8E- SHALLOW UNSATURATED SOIL REDUCED FREQUENCY GRID SAMPLE LOCATIONS
Print Date: 02/05/2018	Date:	Comments	Init.	
File Name: grid_pattern_2.dgn				CENTRAL 70

Kiewit meridiam PARTNERS

Central 70

Sheet Number 13 of 15


I-225
N
2370+00
2380+00
2390+00
2400+00
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2420+00
2430+00
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2670+00
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2690+00
2700+00
2710+00
2720+00
2730+00
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2750+00
2760+00



Author: TK		Sheet Revisions			Kiewit meridiam PARTNERS · Central 70	FIGURE 8G - SHALLOW UNSATURATED SOIL REDUCED FREQUENCY GRID SAMPLE LOCATIONS	Sheet Number 15 of 15
Print Date: 02/05/2018		Date:	Comments	Init.			
File Name: grid pattern_2.dgn					CENTRAL 70		

Kiewit meridiam

Central 70

West Segment Environmental Samples: Top 12"

Hide Block #s

Updated: Oct 05, 4:51AM CT

Figure 3A

Results: Depth = 0″ - 6″

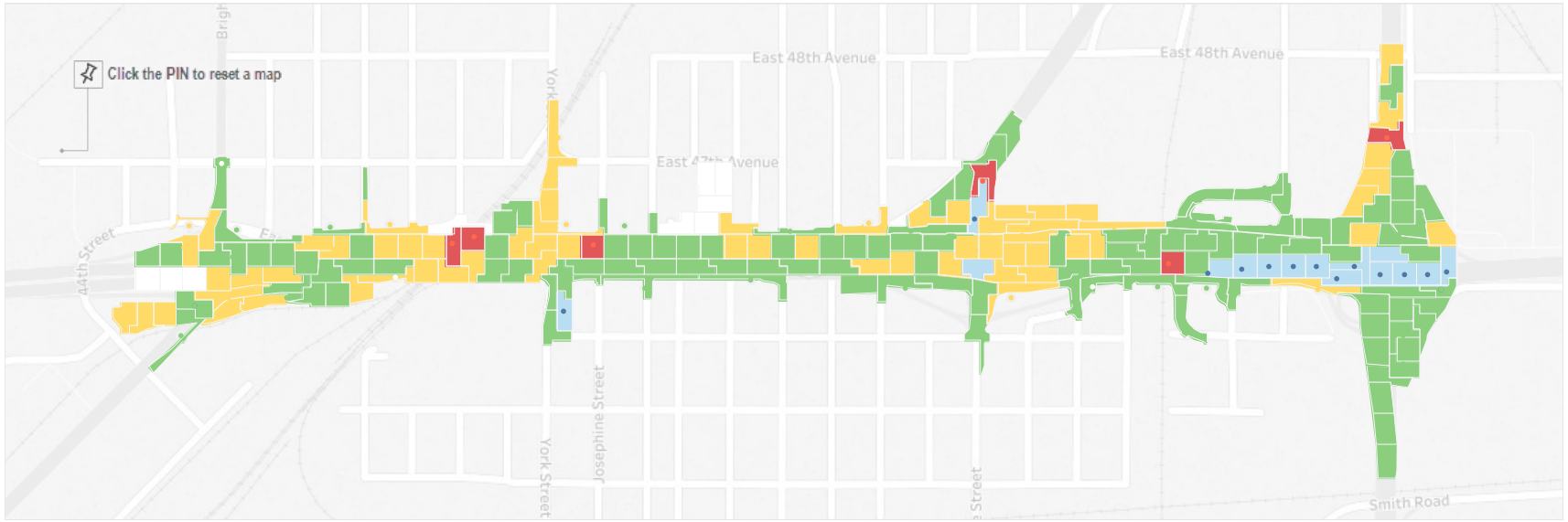
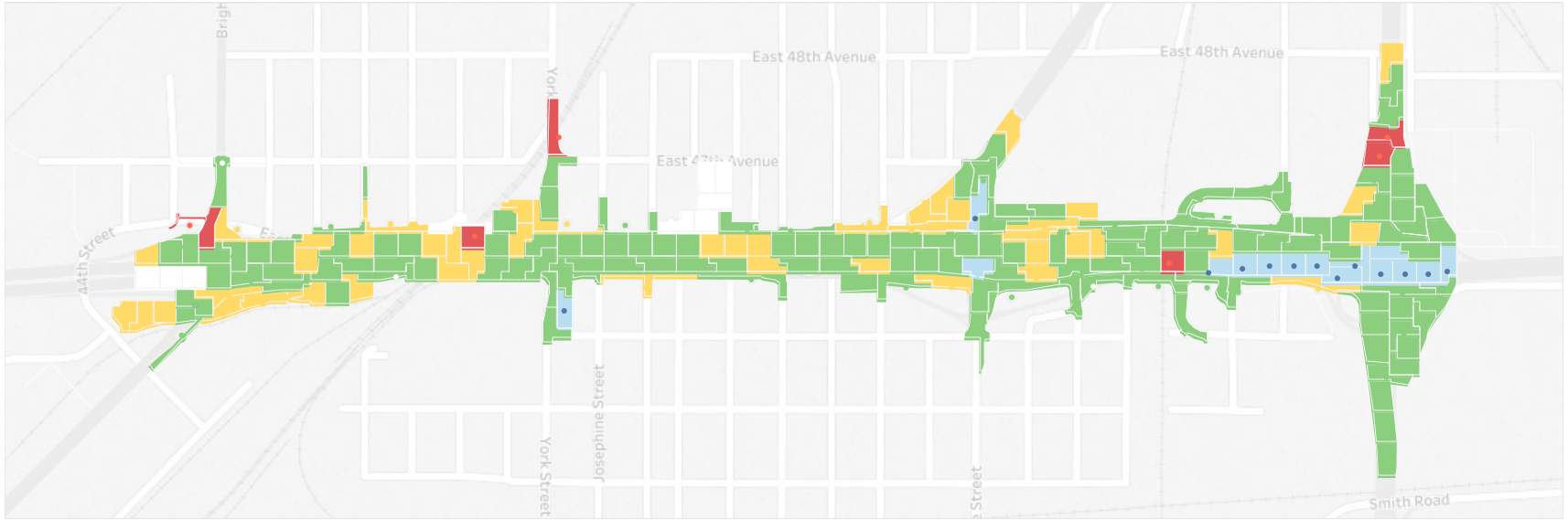


Figure 3B

Results: Depth = 6″ - 12″



Kiewit meridiam

Central 70

West Segment Environmental Samples: Top 12"

Show Block #s

Updated: Oct 05, 4:51AM CT

Figure 3C

Results: Depth = 0″ - 6″

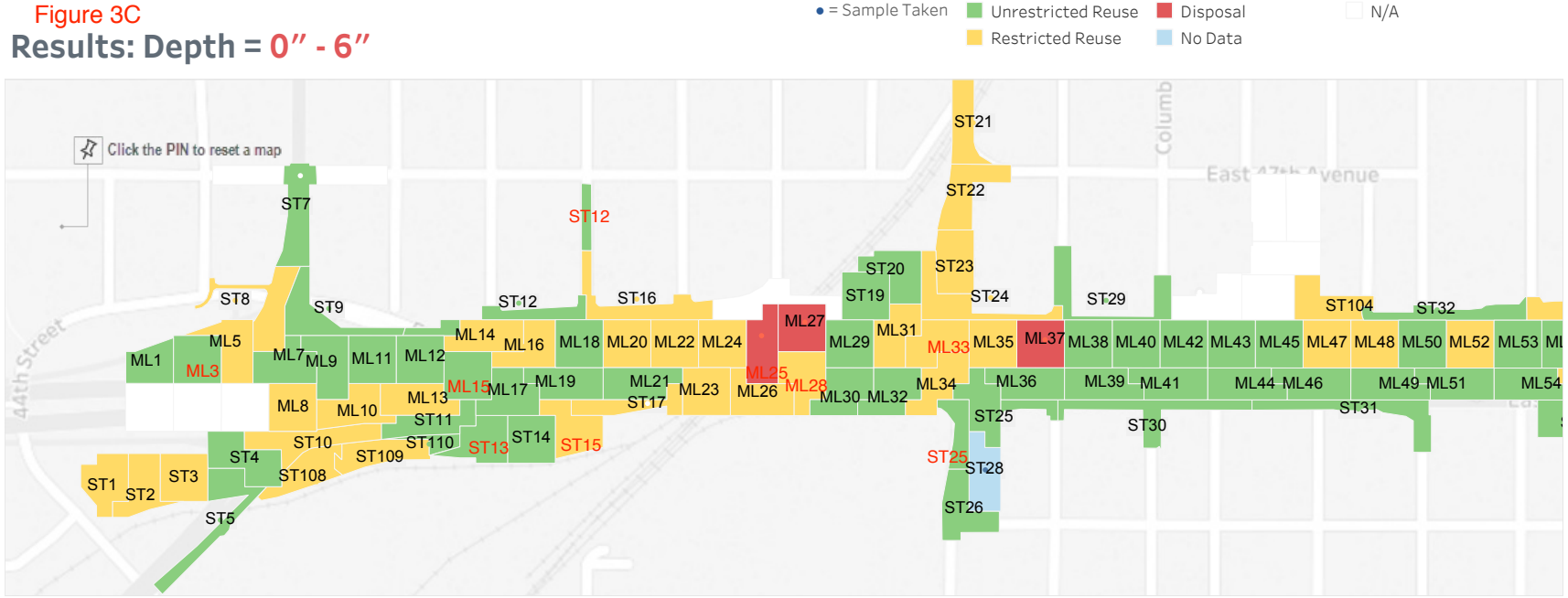
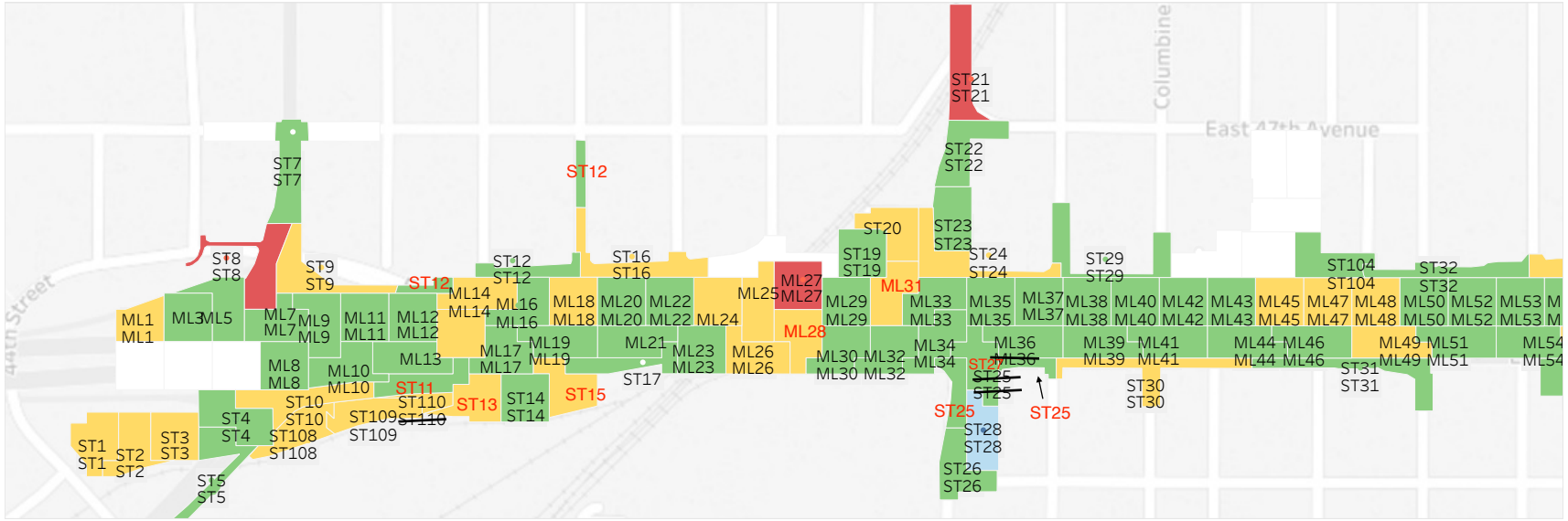


Figure 3D

Results: Depth = 6″ - 12″



Kiewit meridiam

Central 70

West Segment Environmental Samples: Top 12"

Show Block #s

Updated: Oct 04, 12:51AM CT

Figure 3E

Results: Depth = 0″ - 6″

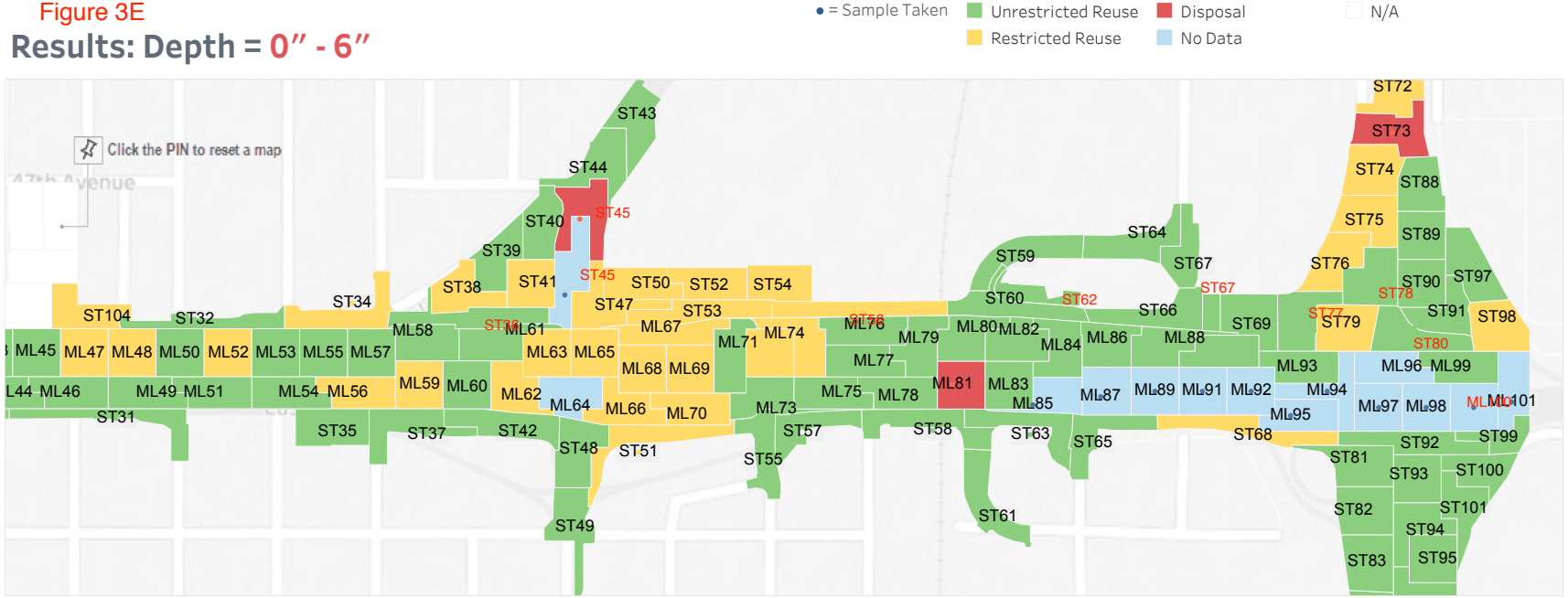
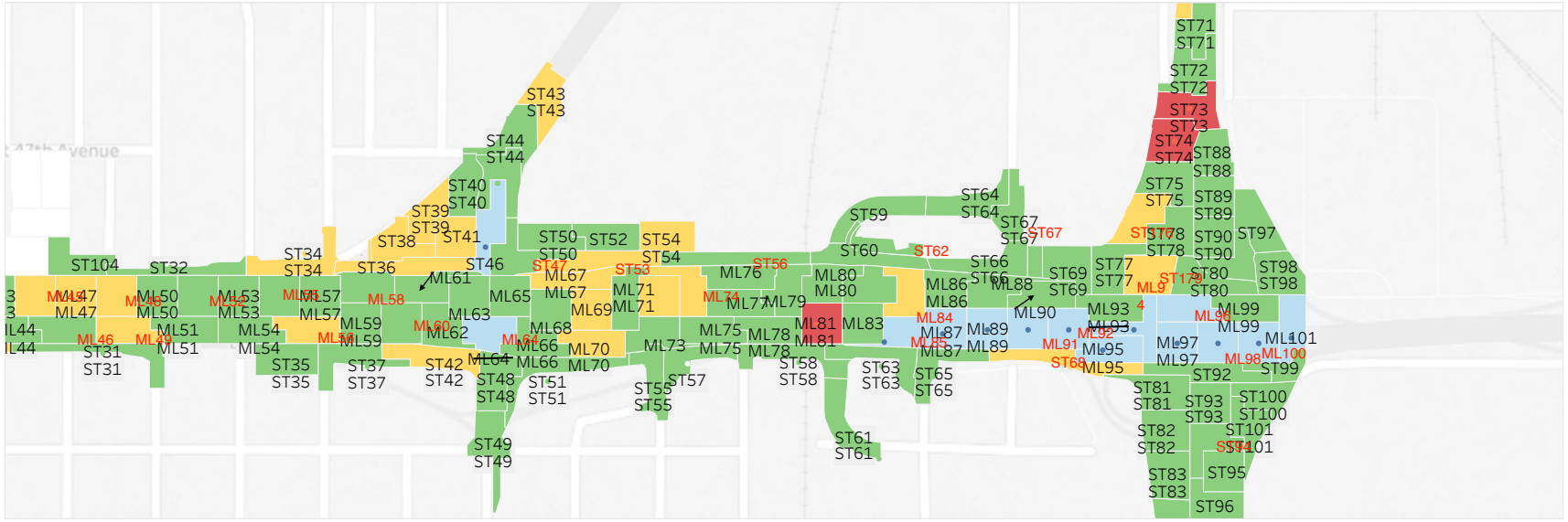


Figure 3F

Results: Depth = 6″ - 12″



Kiewit meridiam

Central 70

West Segment Environmental Samples: Top 12"

Show Block #s

Updated: Oct 05, 4:51AM CT

Figure 3G

Results: Depth = 0″ - 6″

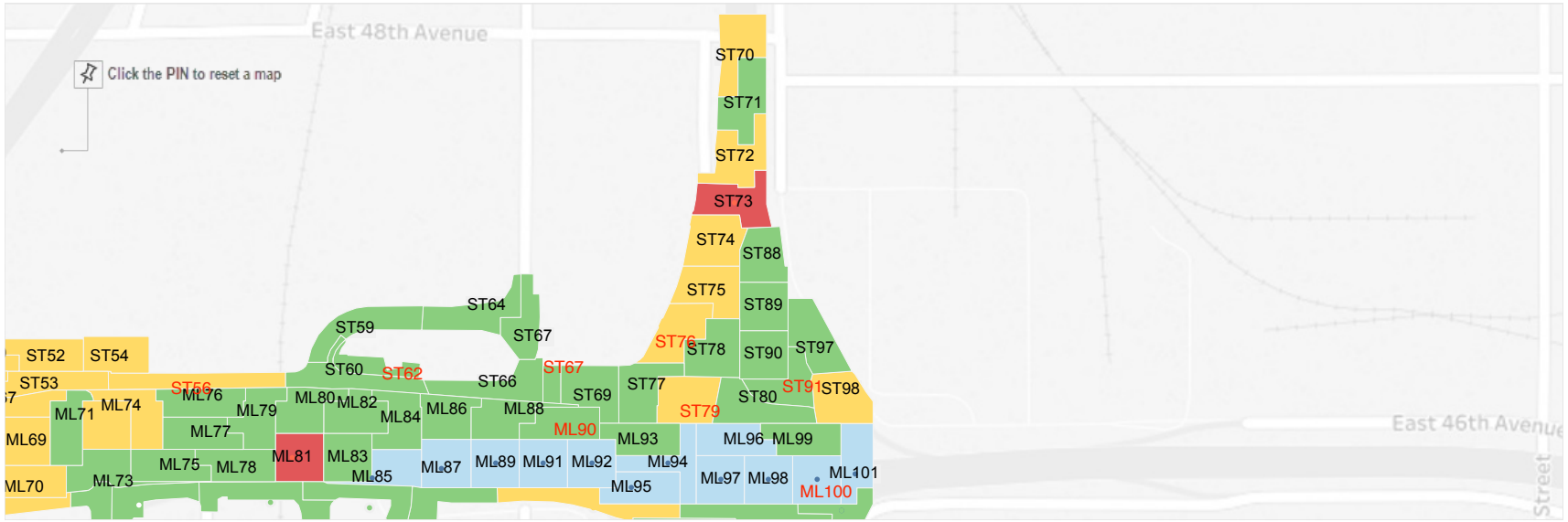
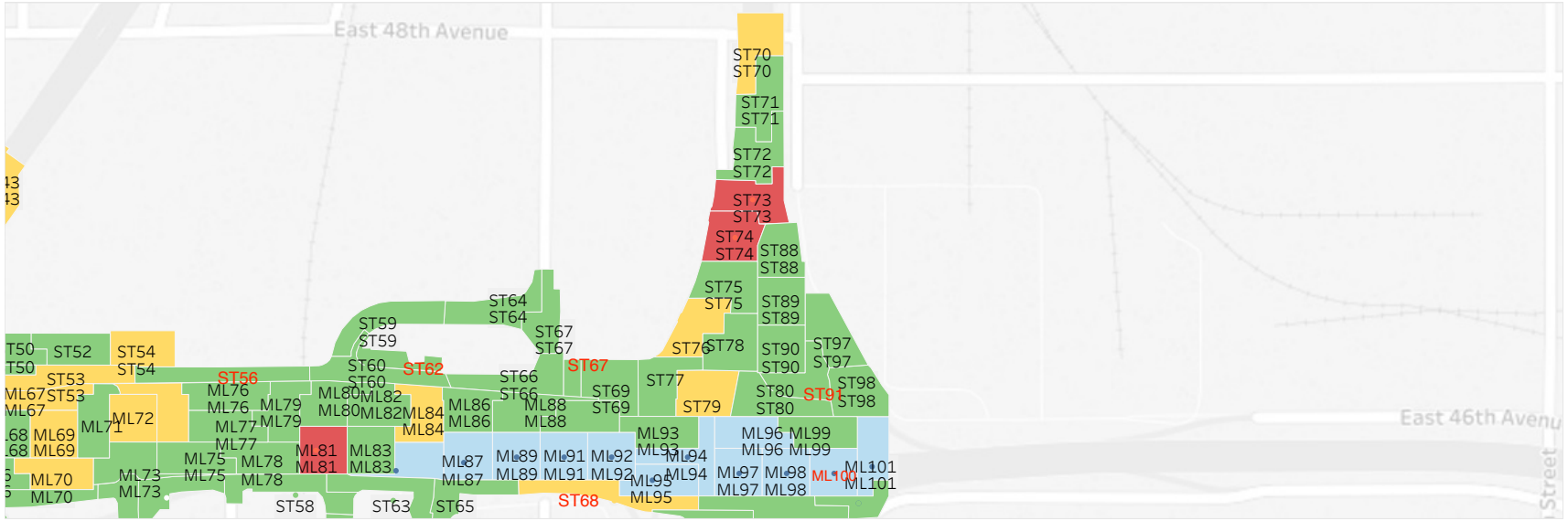


Figure 3H

Results: Depth = 6″ - 12″



Kiewit meridiam

Central 70

West Segment Environmental Samples: Top 12"

Show Block #s

Updated: Oct 05, 4:51AM CT

Figure 3I

Results: Depth = 0″ - 6″

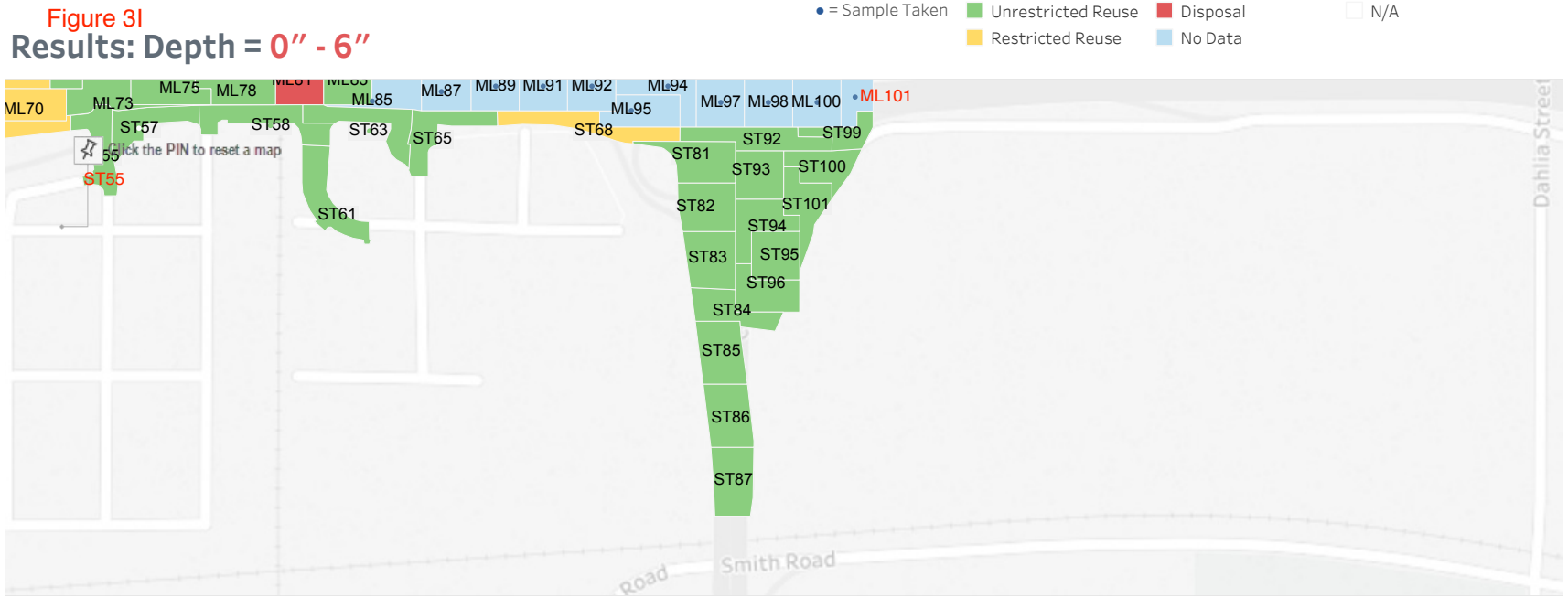
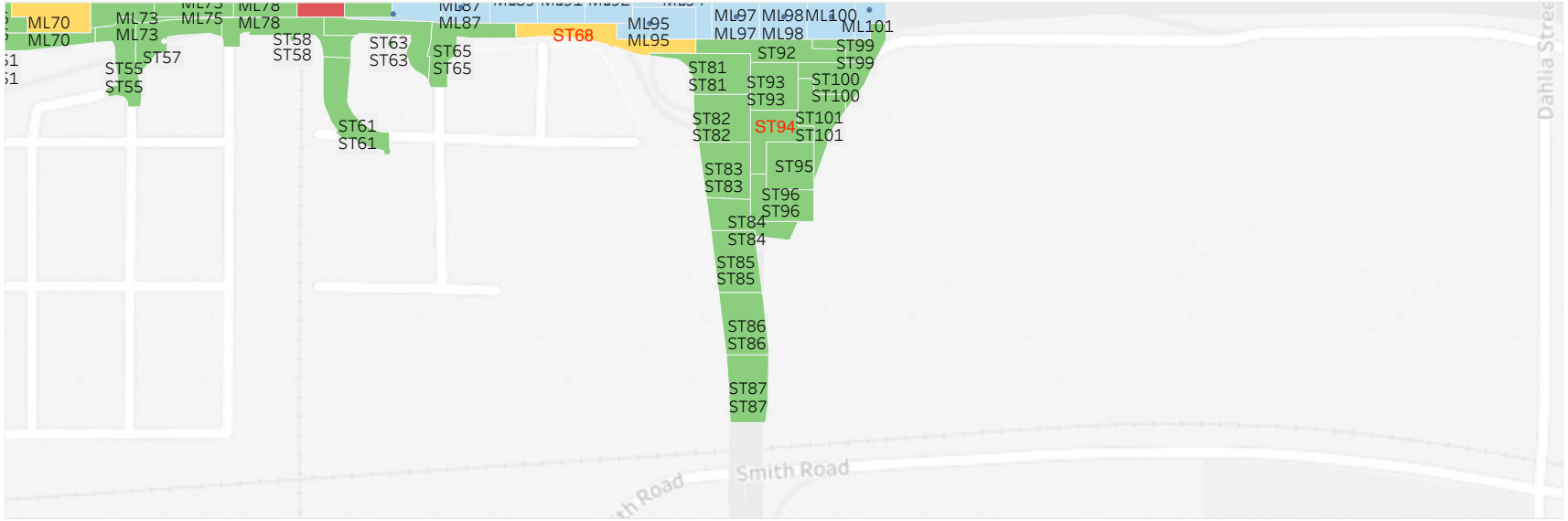


Figure 3J

Results: Depth = 6″ - 12″



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Hide Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4A

Results: 5’ Intervals: 12” - 5’

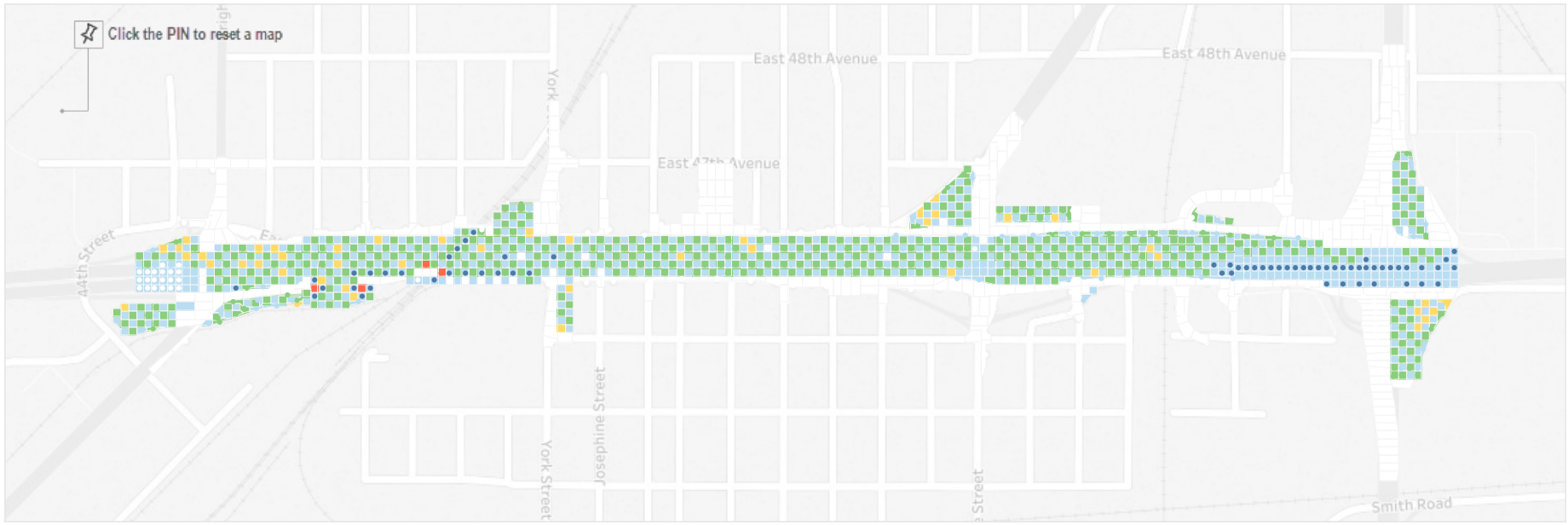


Figure 4B

Results: 5’ Intervals: 5’ - 10’

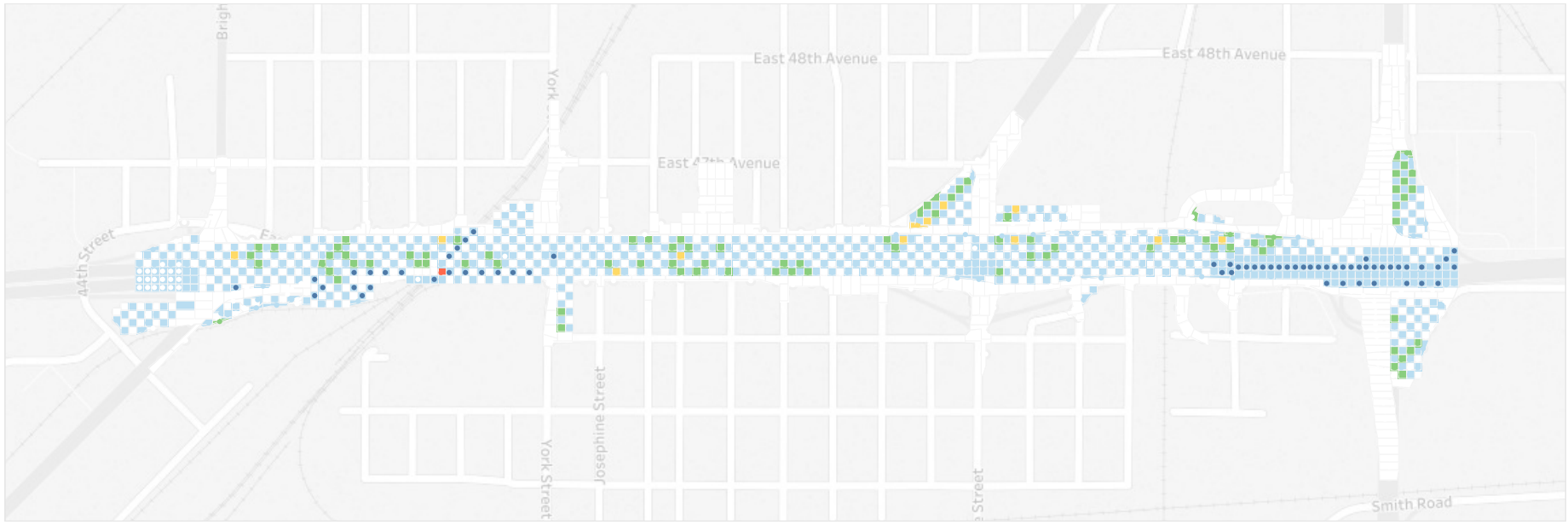


Figure 4C

Results: 5′ Intervals: 10′ - 15′

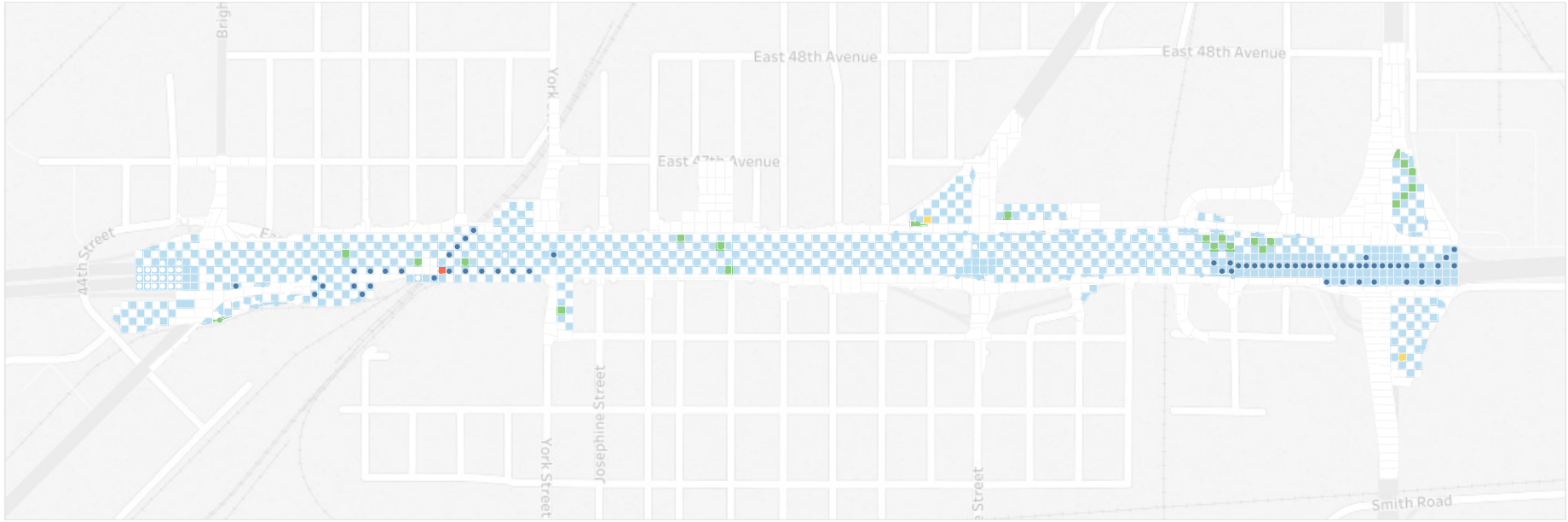
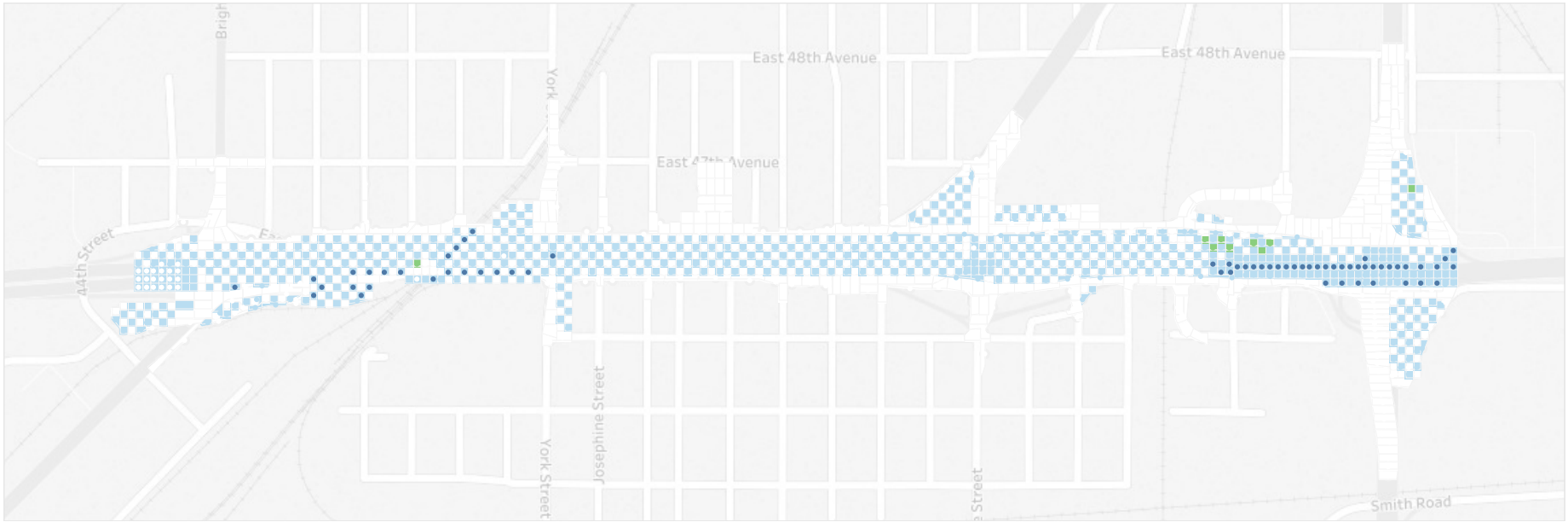


Figure 4D

Results: 5′ Intervals: 15′ - 20′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4E

Results: 5’ Intervals: 12” - 5’

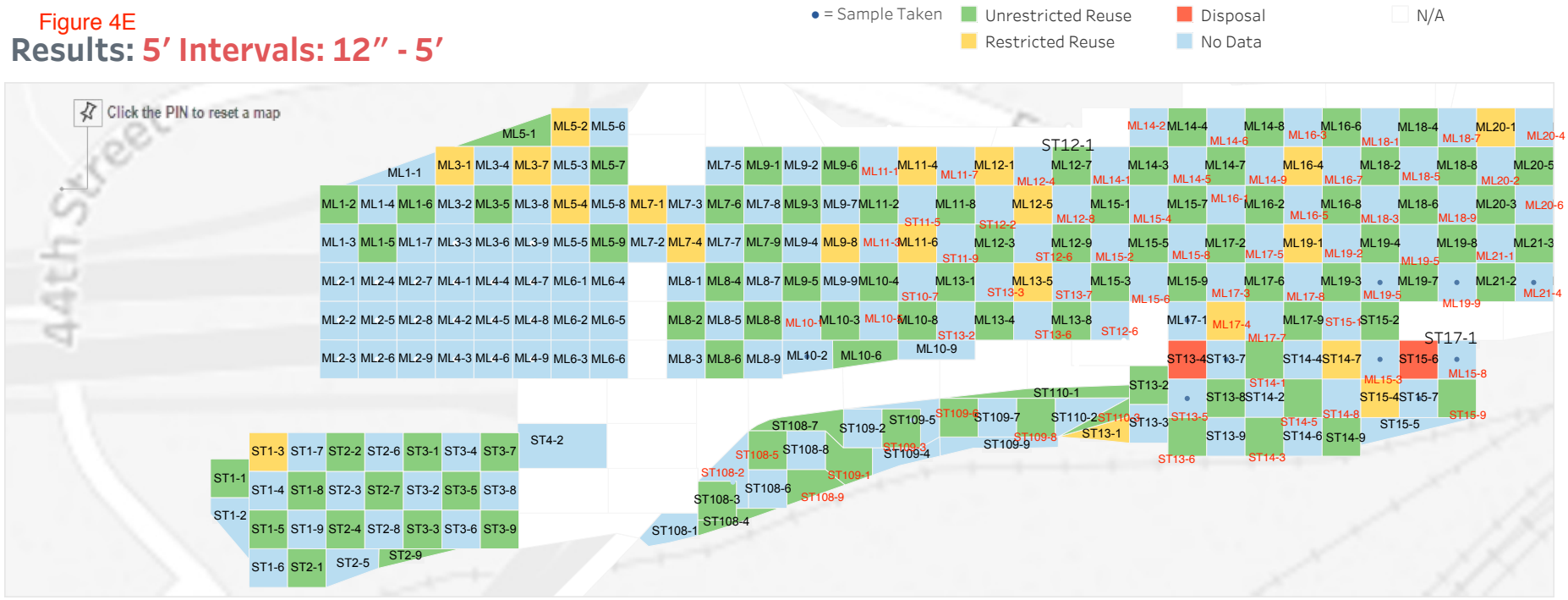


Figure 4F

Results: 5’ Intervals: 5’ - 10’

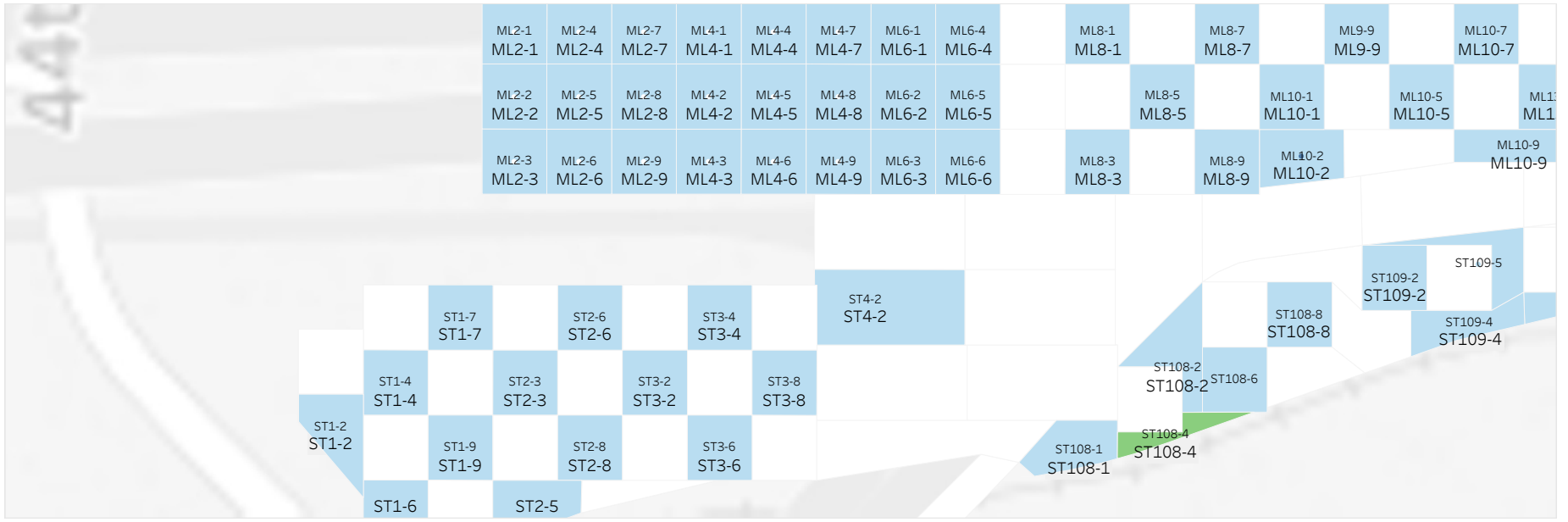


Figure 4G

Results: 5′ Intervals: 10′ - 15′

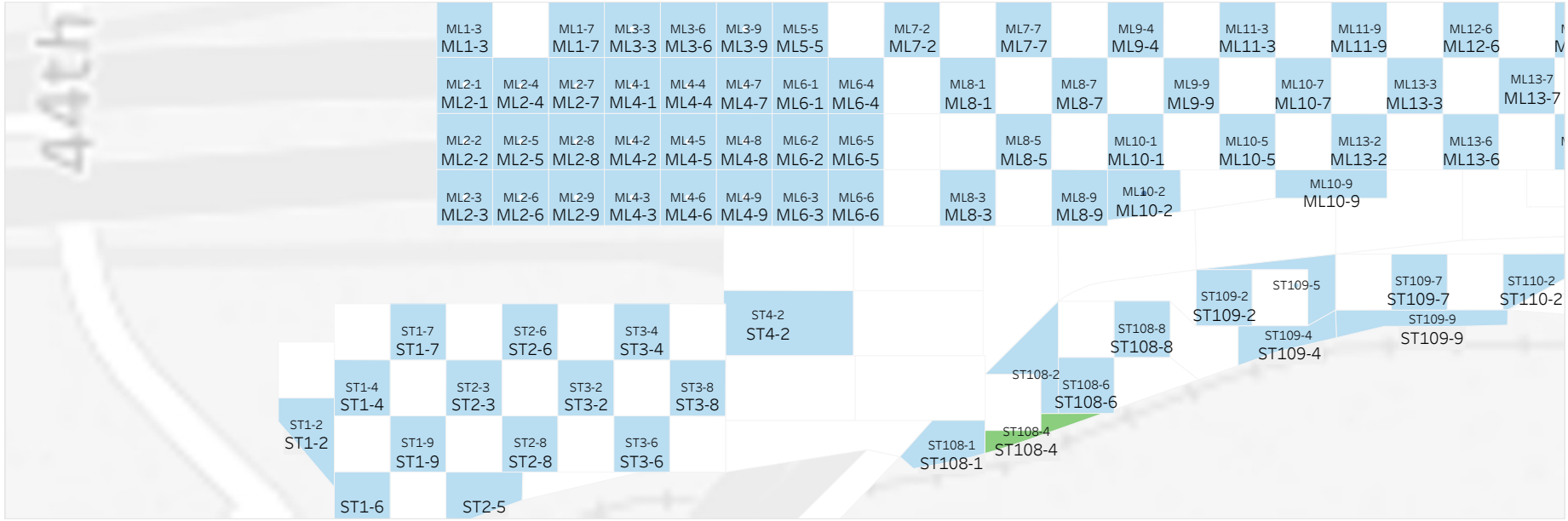
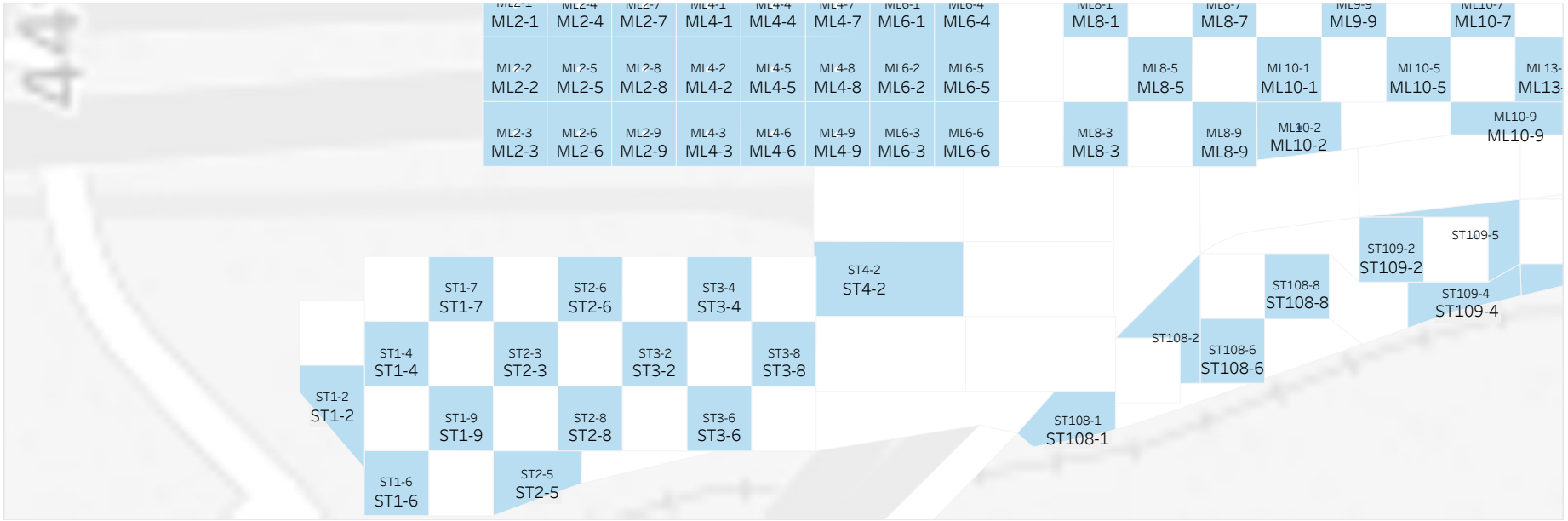


Figure 4H

Results: 5′ Intervals: 15′ - 20′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4I
Results: 5' Intervals: 12" - 5'

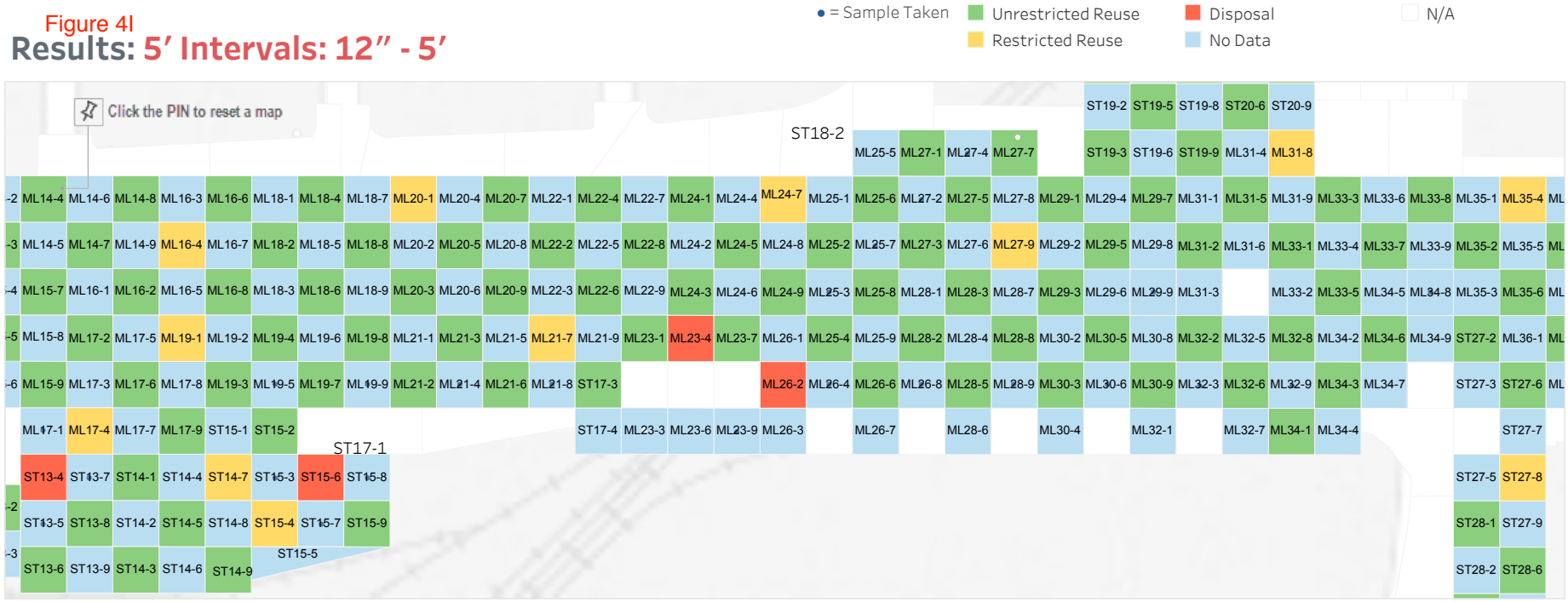


Figure 4J
Results: 5' Intervals: 5' - 10'

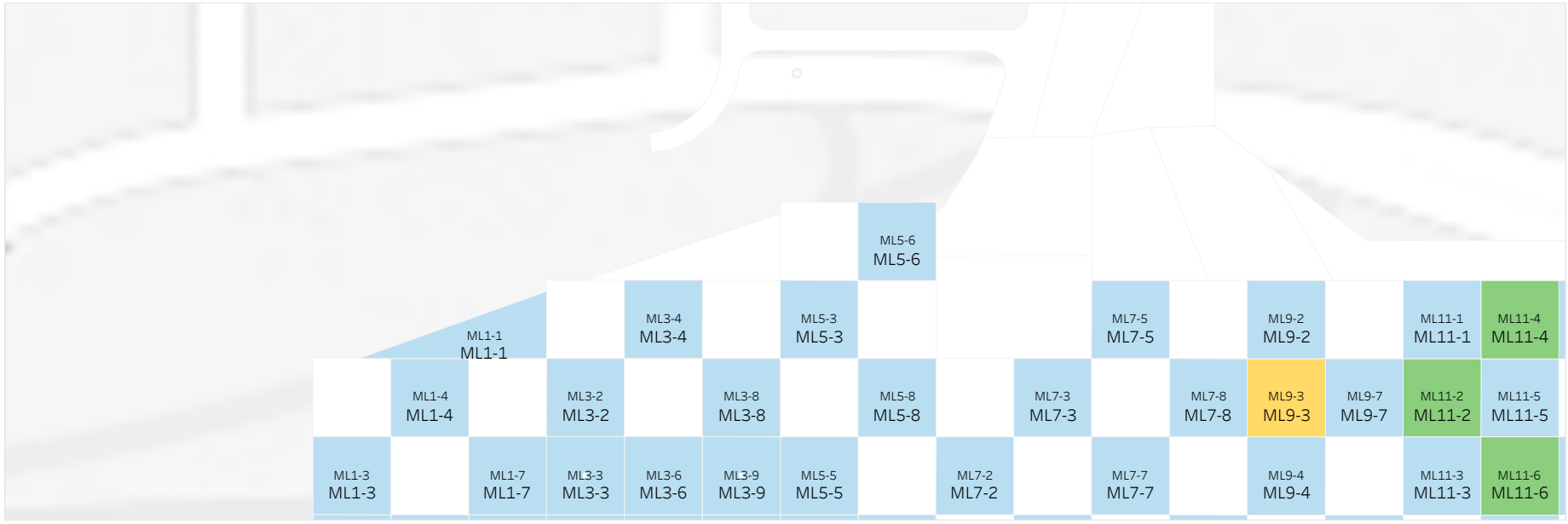


Figure 4K

Results: 5′ Intervals: 10′ - 15′

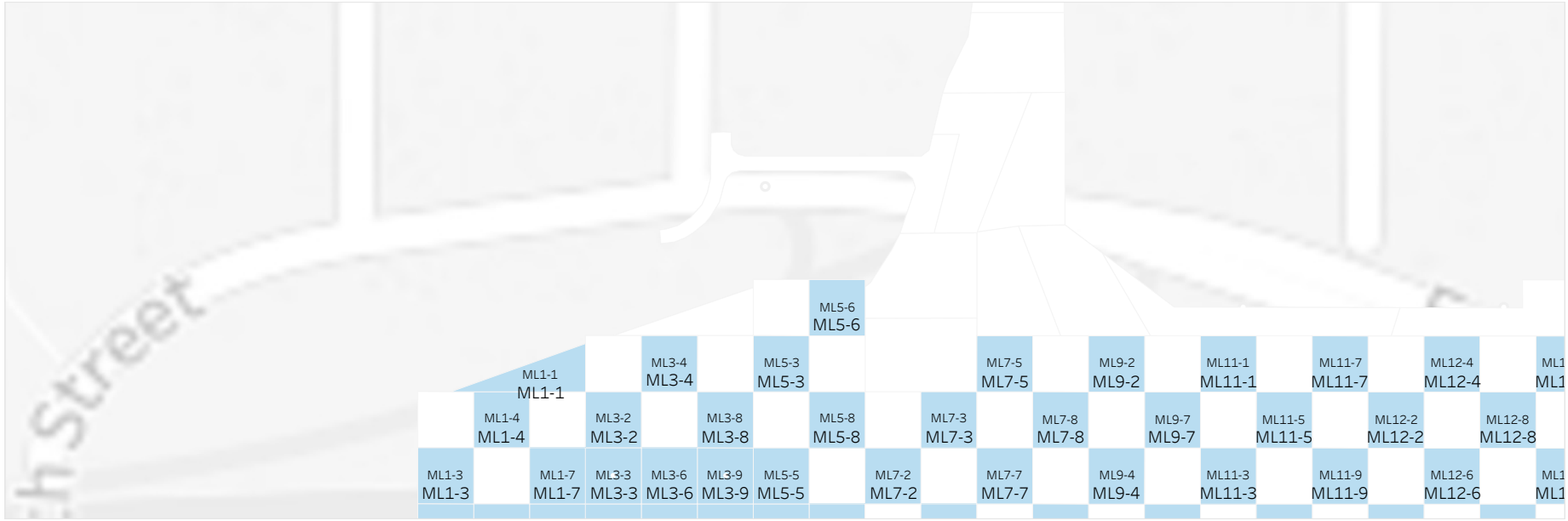
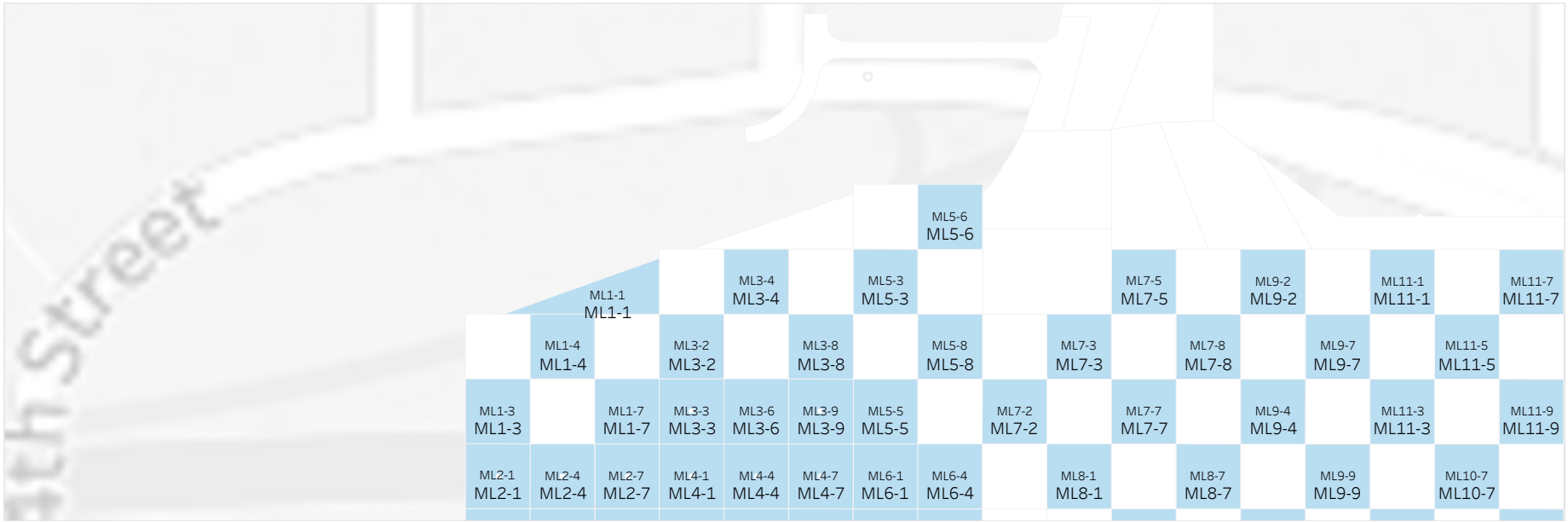


Figure 4L

Results: 5′ Intervals: 15′ - 20′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4M

Results: 5’ Intervals: 12” - 5’

• = Sample Taken | Unrestricted Reuse | Restricted Reuse | Disposal | No Data | N/A

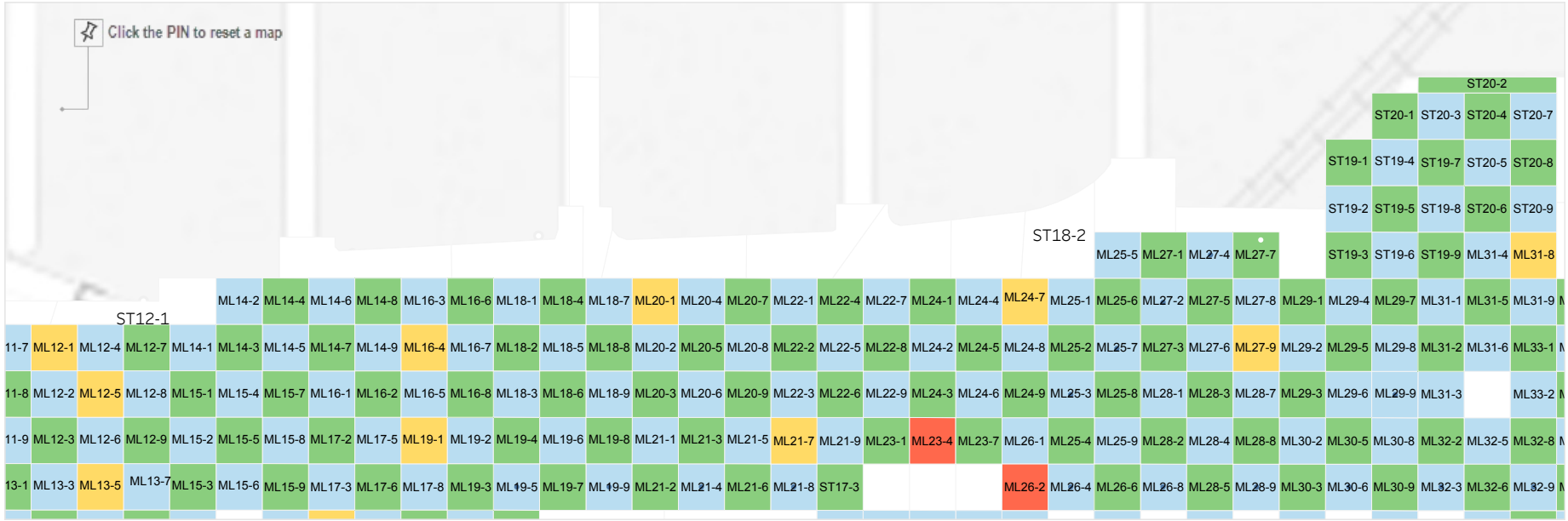


Figure 4N

Results: 5’ Intervals: 5’ - 10’

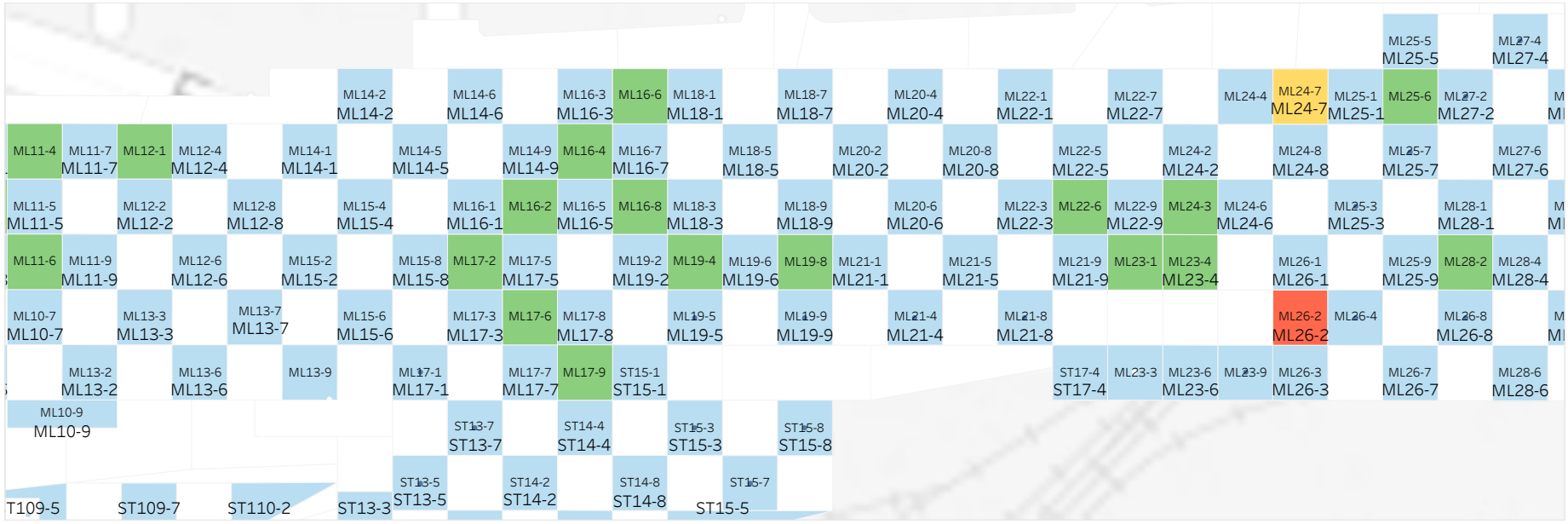


Figure 4O

Results: 5’ Intervals: 10’ - 15’

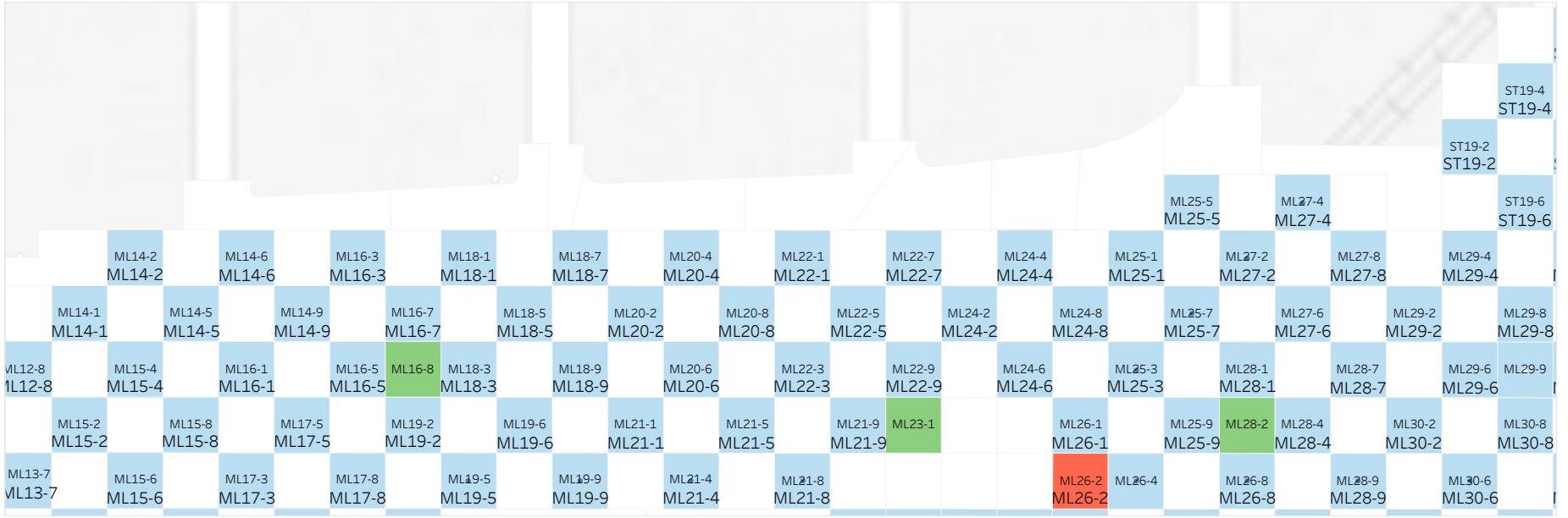
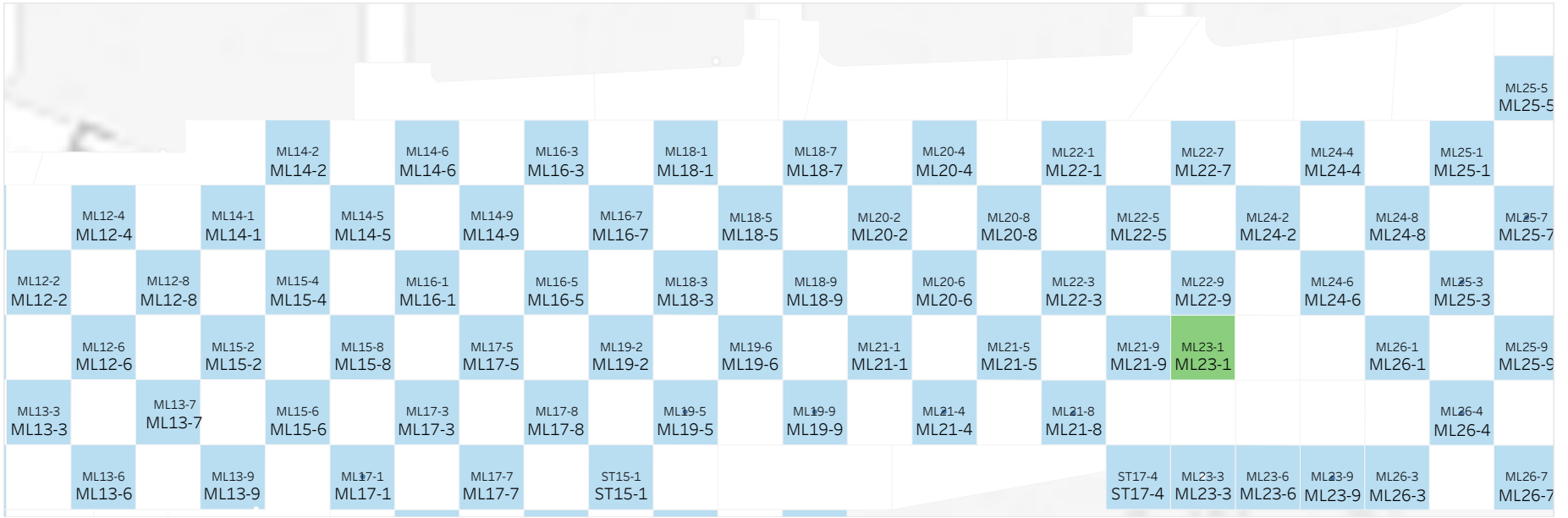


Figure 4P

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

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Figure 4Q

Results: 5’ Intervals: 12” - 5’

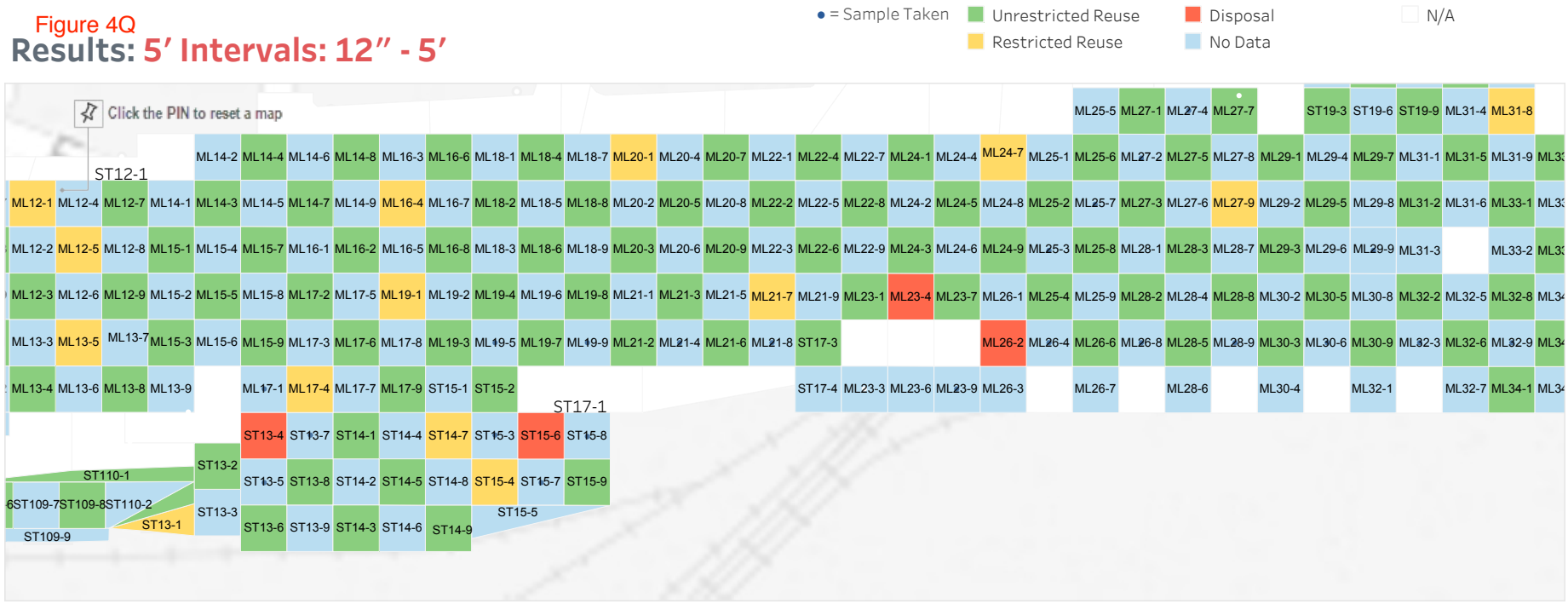


Figure 4R

Results: 5’ Intervals: 5’ - 10’

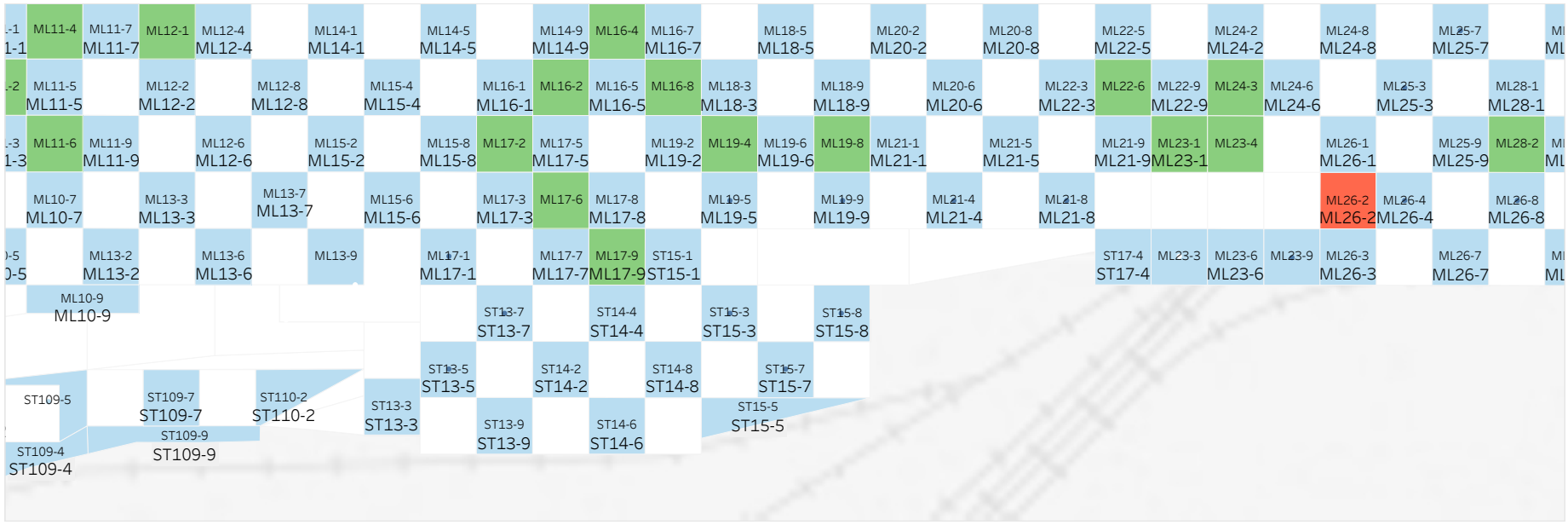


Figure 4S

Results: 5′ Intervals: 10′ - 15′

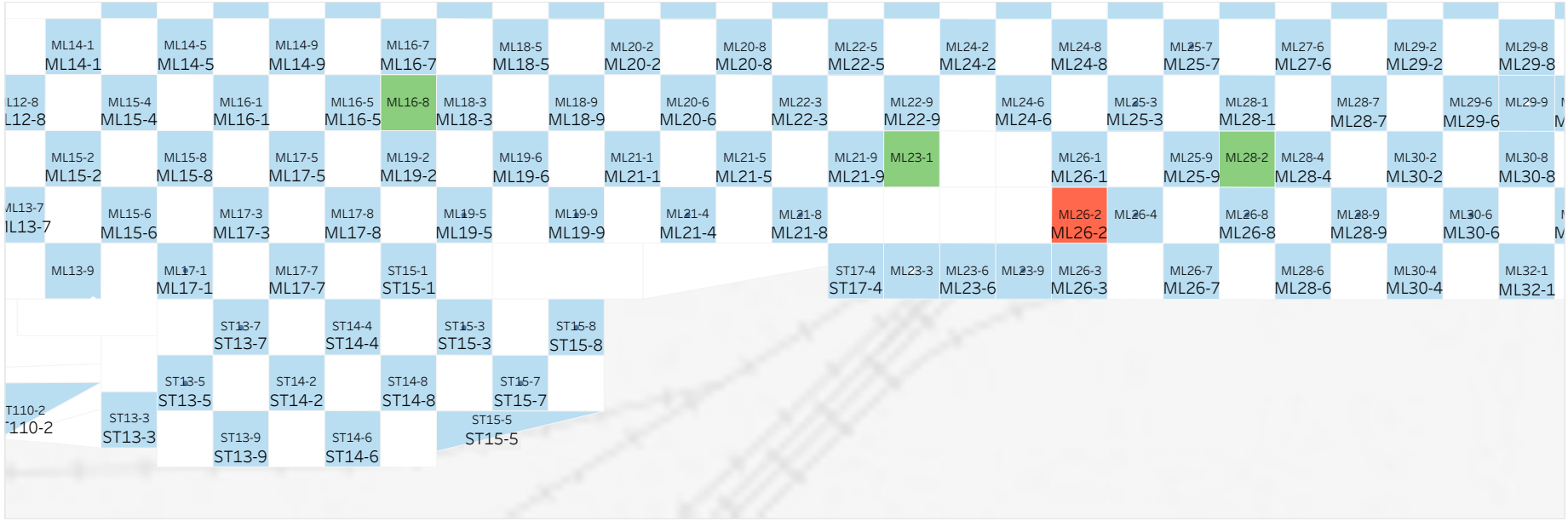
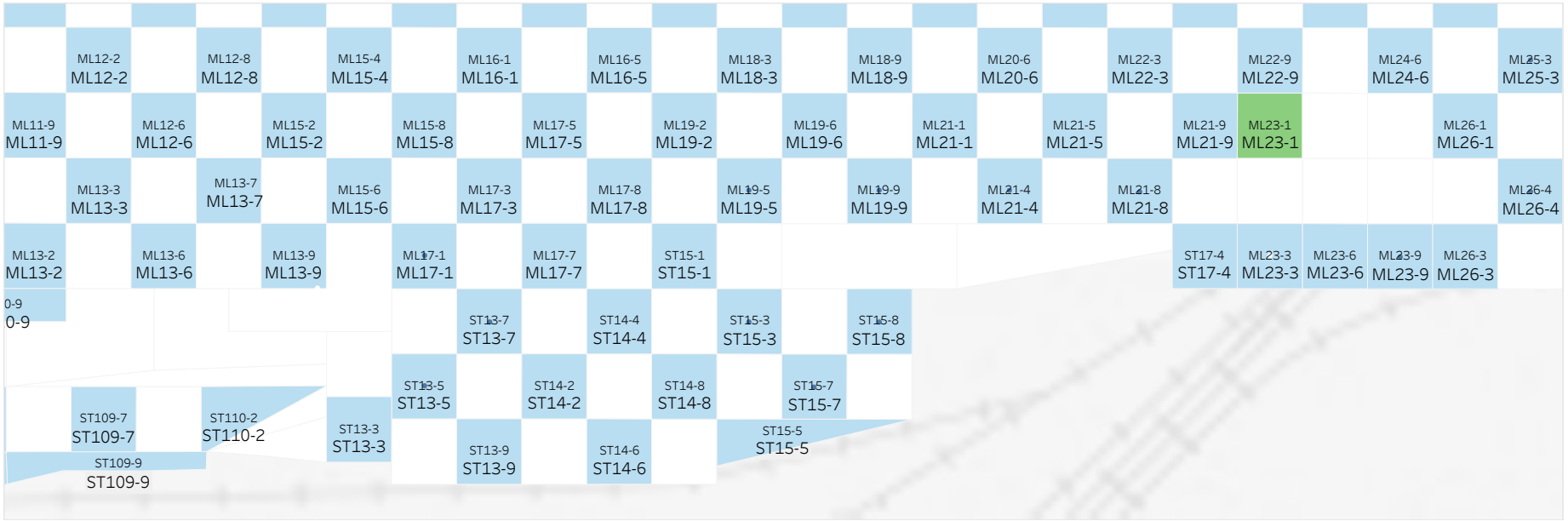


Figure 4T

Results: 5′ Intervals: 15′ - 20′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4U

Results: 5’ Intervals: 12” - 5’

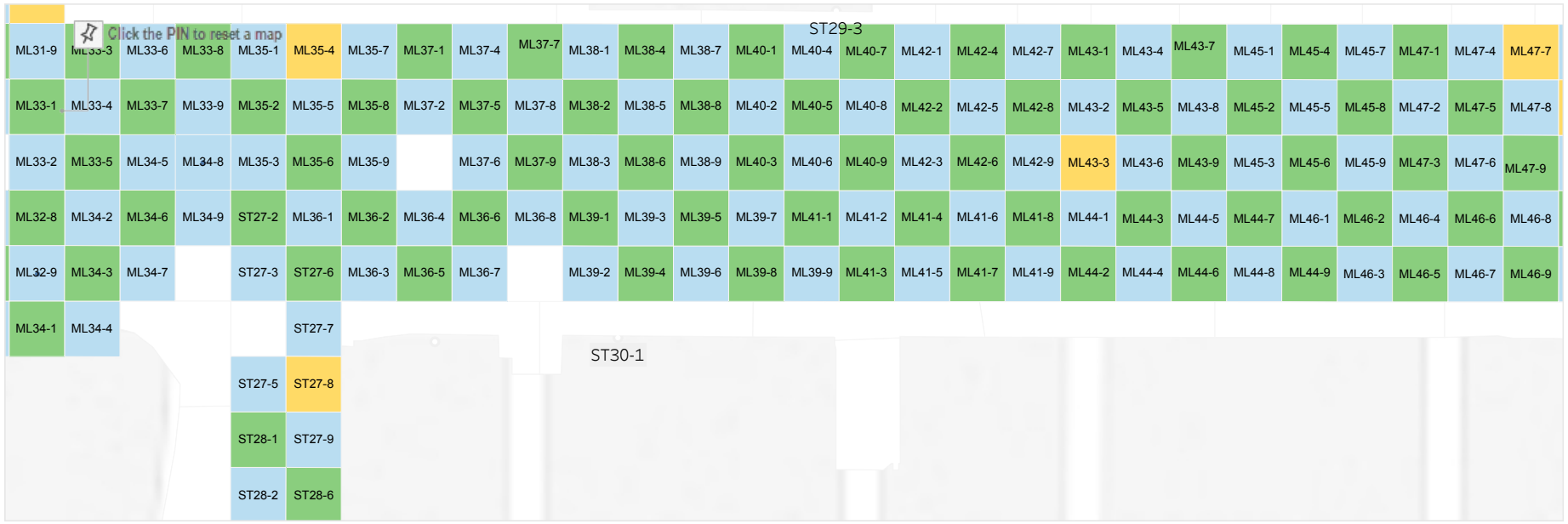


Figure 4V

Results: 5’ Intervals: 5’ - 10’

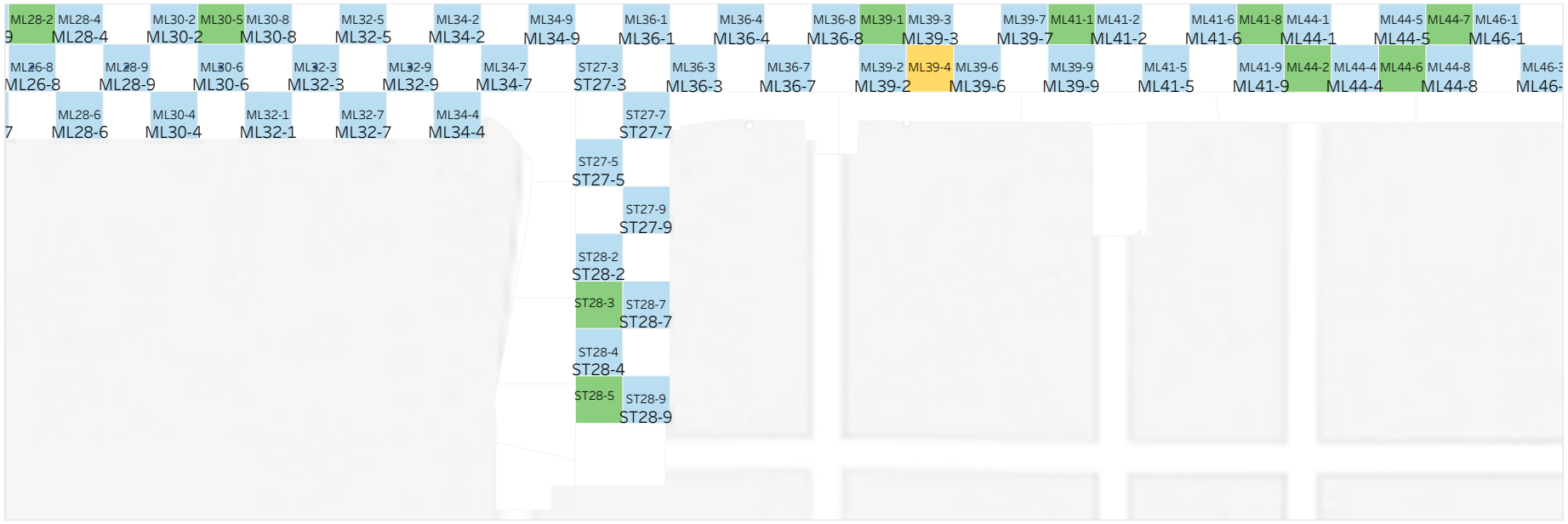


Figure 4W

Results: 5’ Intervals: 10’ - 15’

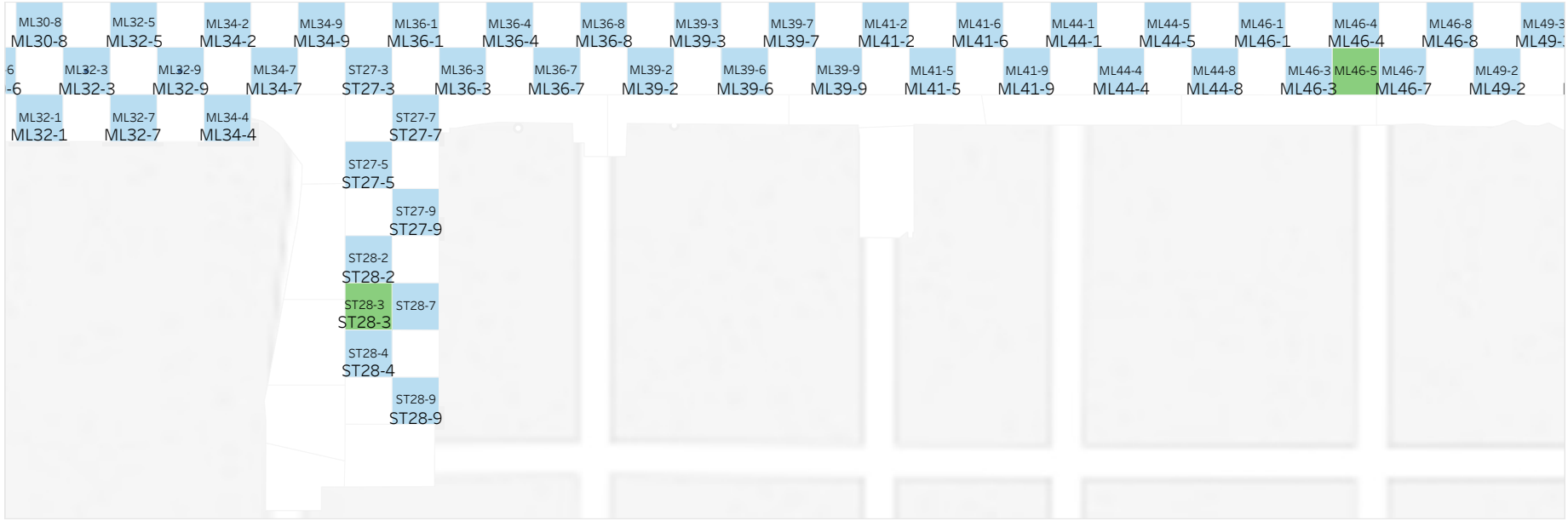
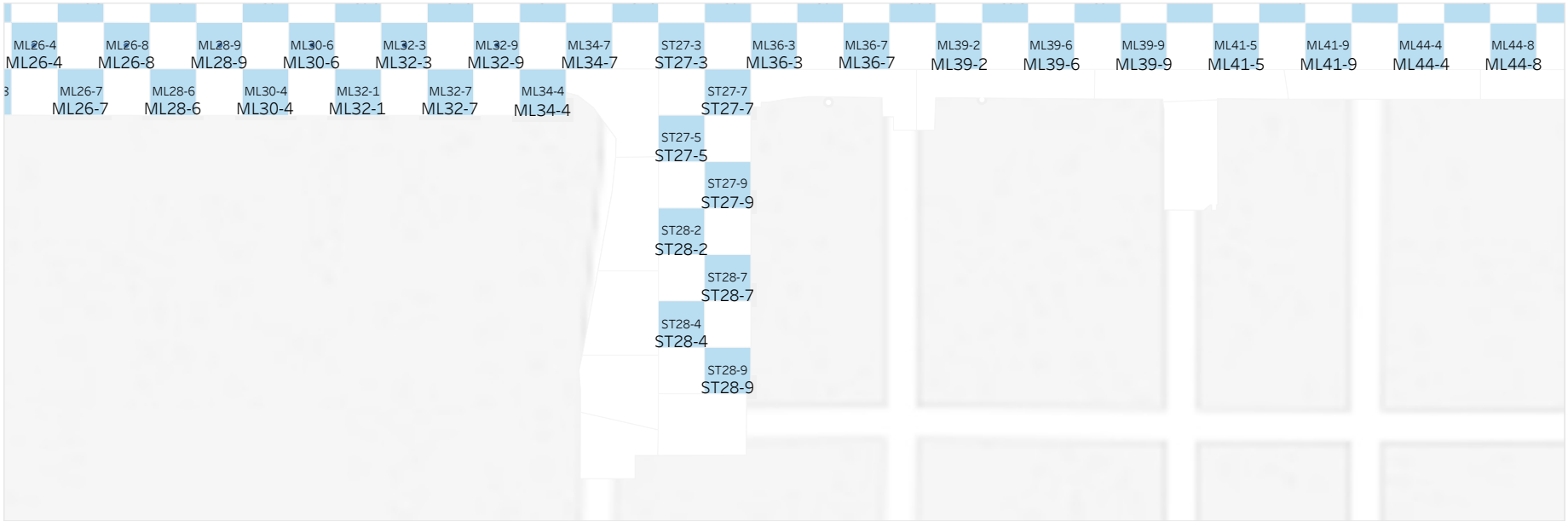


Figure 4X

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4Y

Results: 5’ Intervals: 12” - 5’

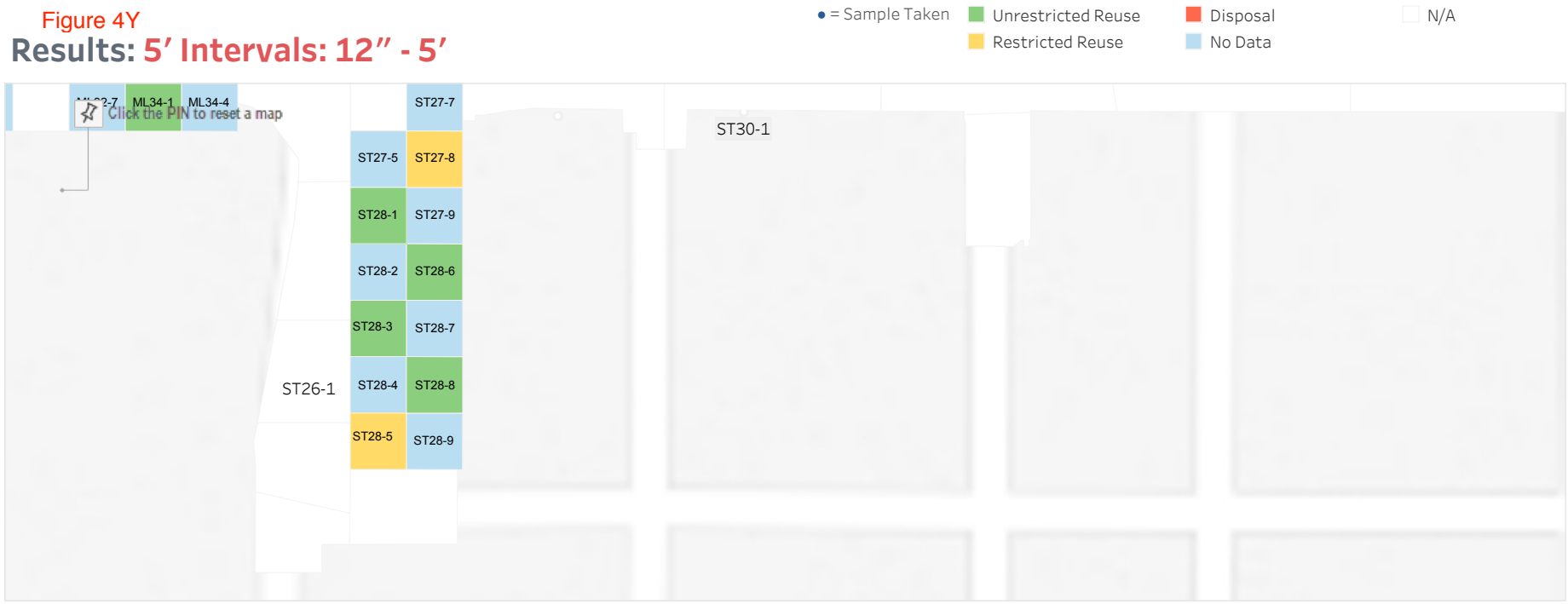


Figure 4Z

Results: 5’ Intervals: 5’ - 10’

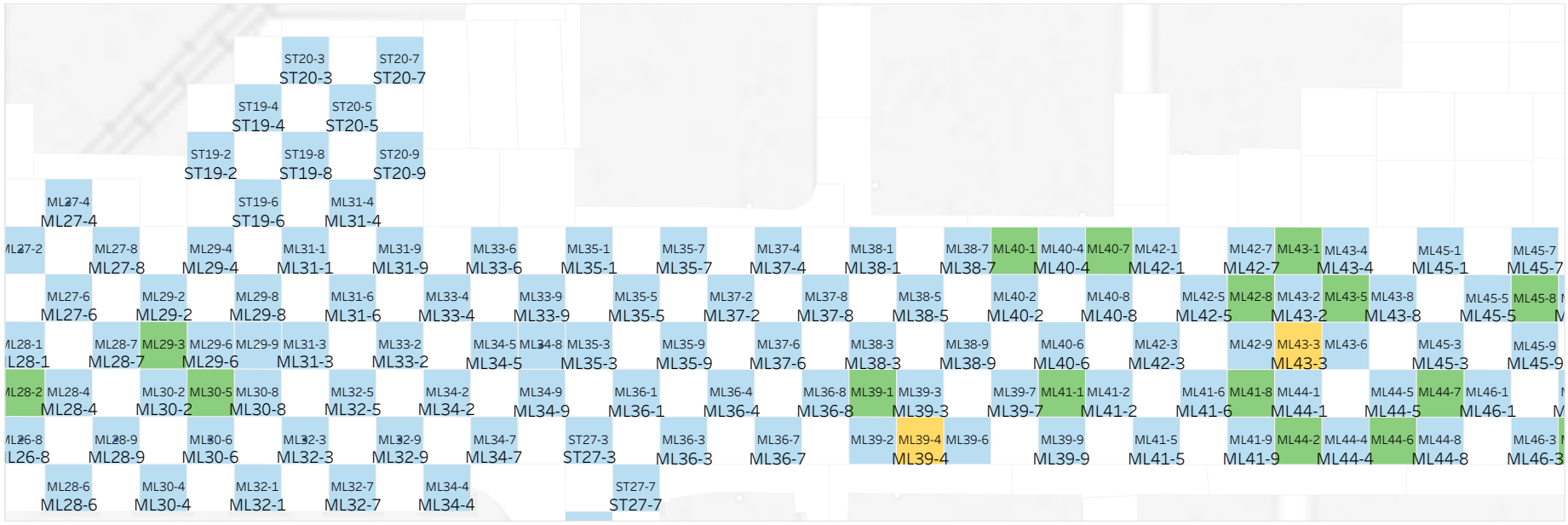


Figure 4AA

Results: 5’ Intervals: 10’ - 15’

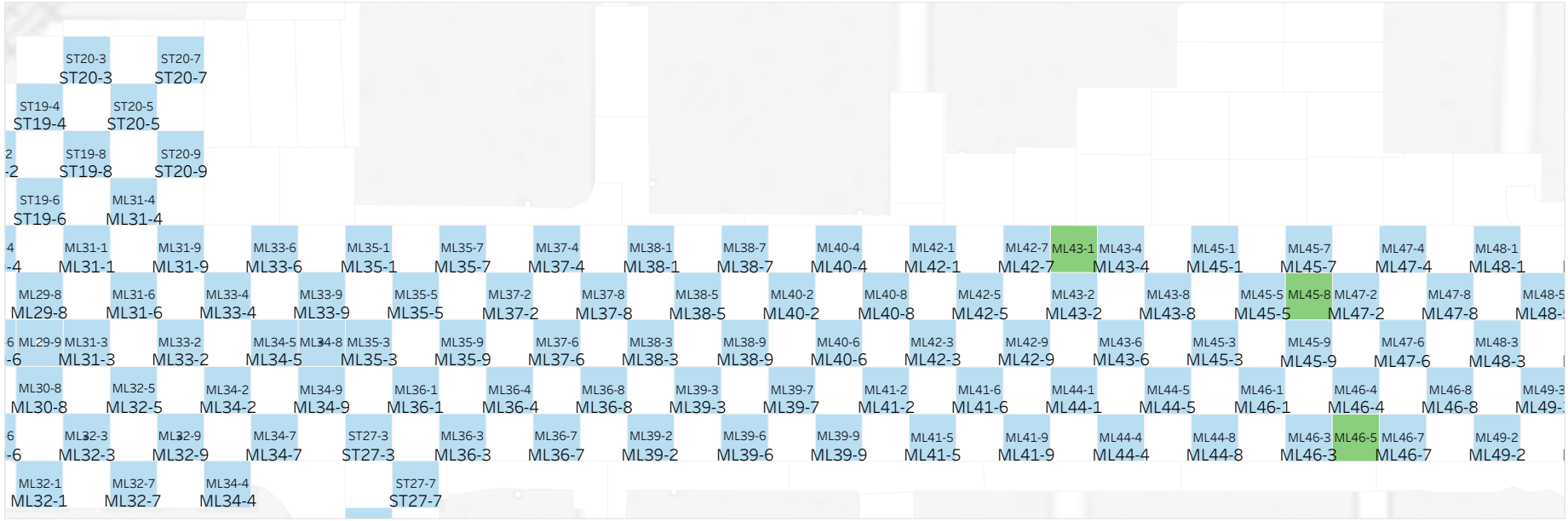
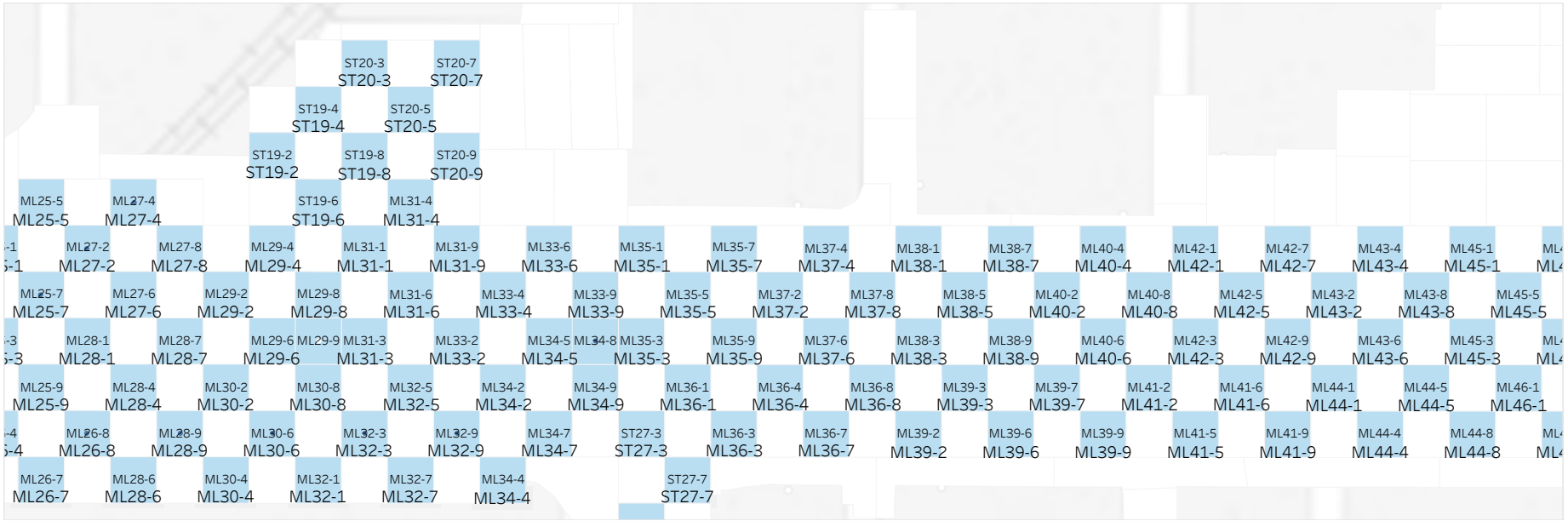


Figure 4AB

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4AC

Results: 5’ Intervals: 12” - 5’

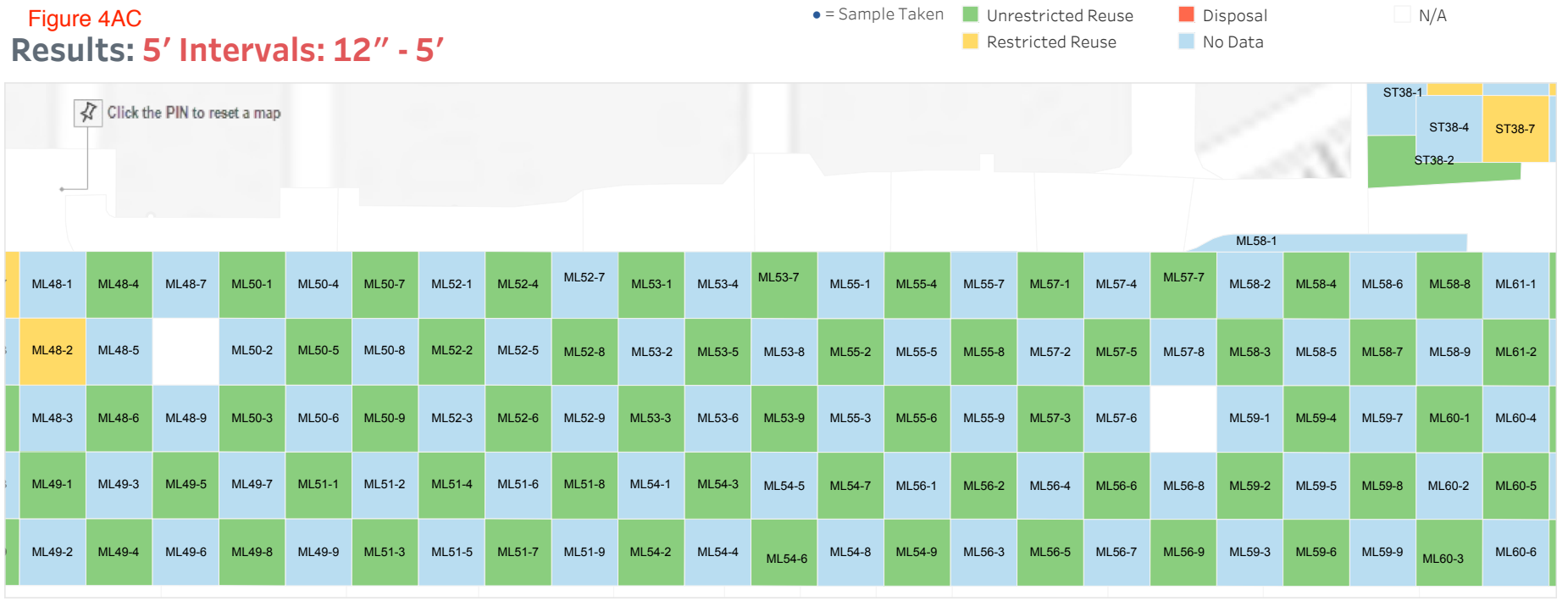


Figure 4AD

Results: 5’ Intervals: 5’ - 10’

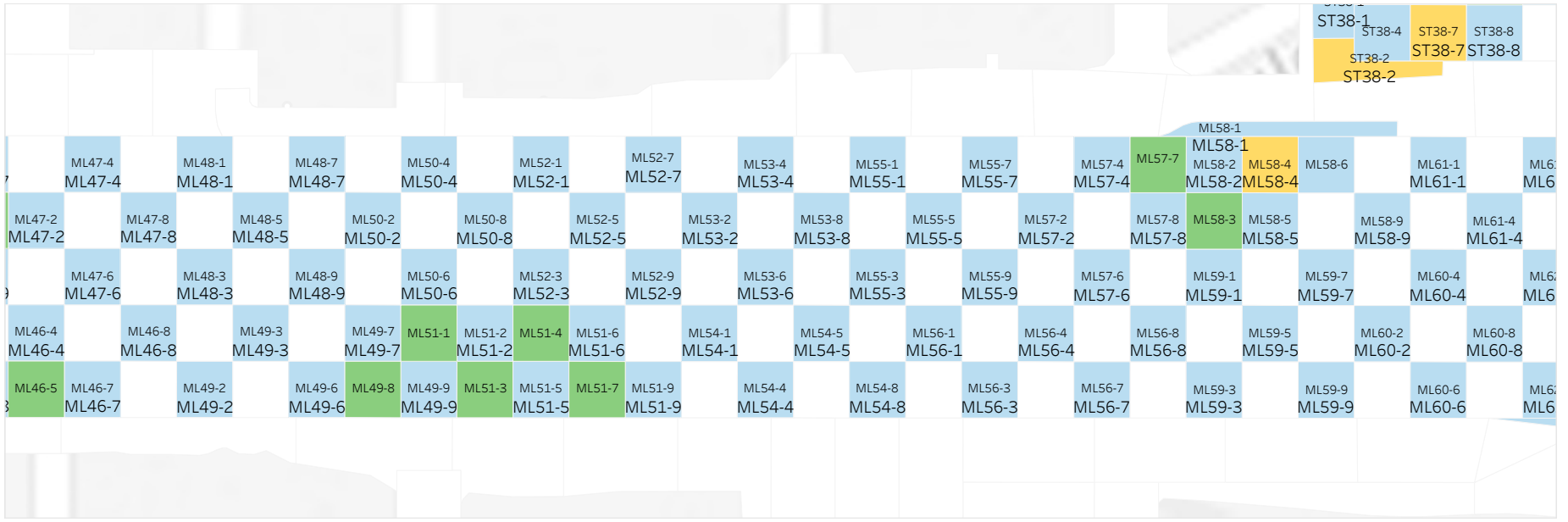


Figure 4AE

Results: 5′ Intervals: 10′ - 15′

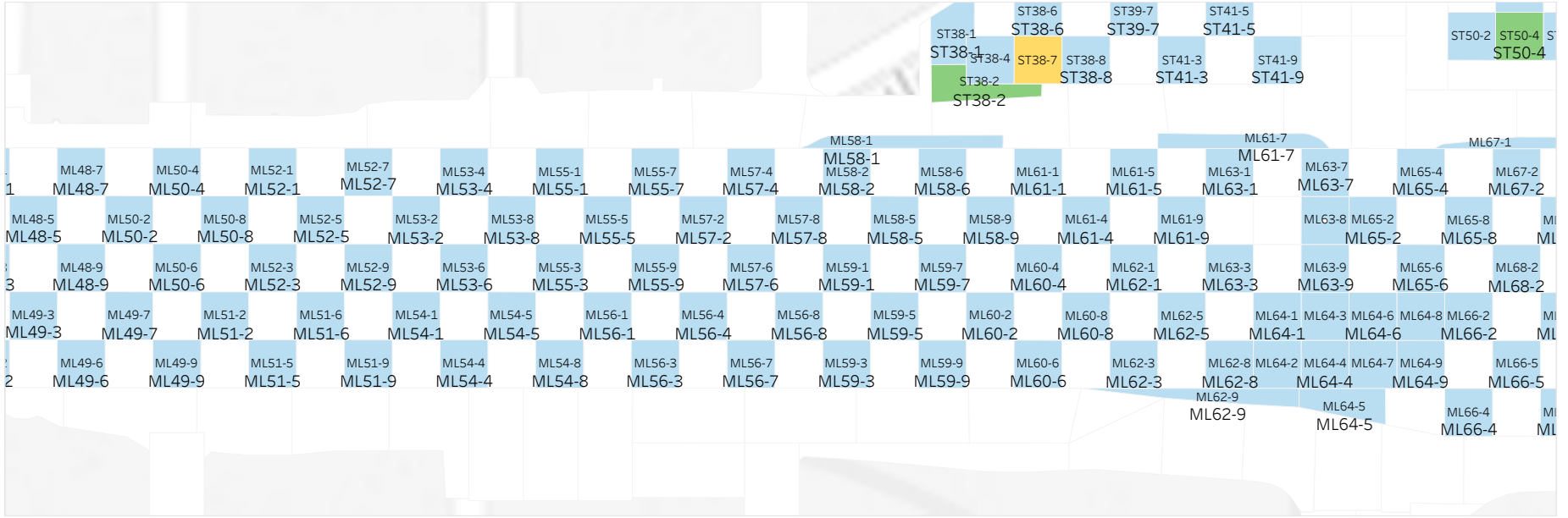
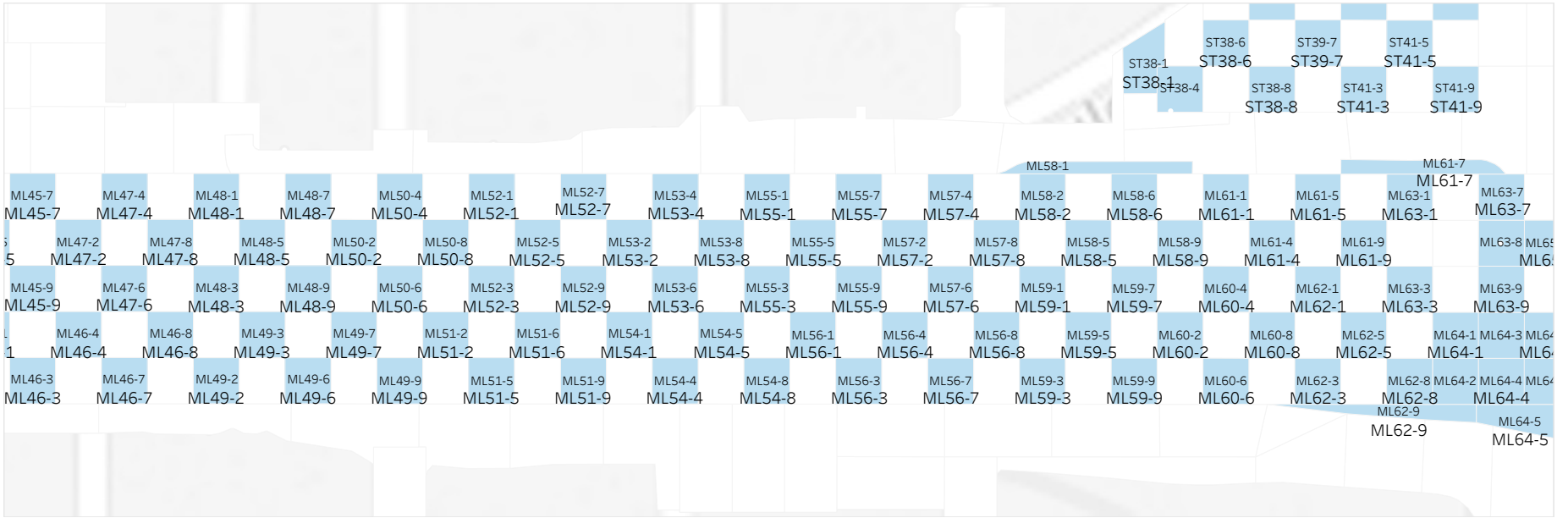


Figure 4AF

Results: 5′ Intervals: 15′ - 20′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4AG

Results: 5’ Intervals: 12” - 5’

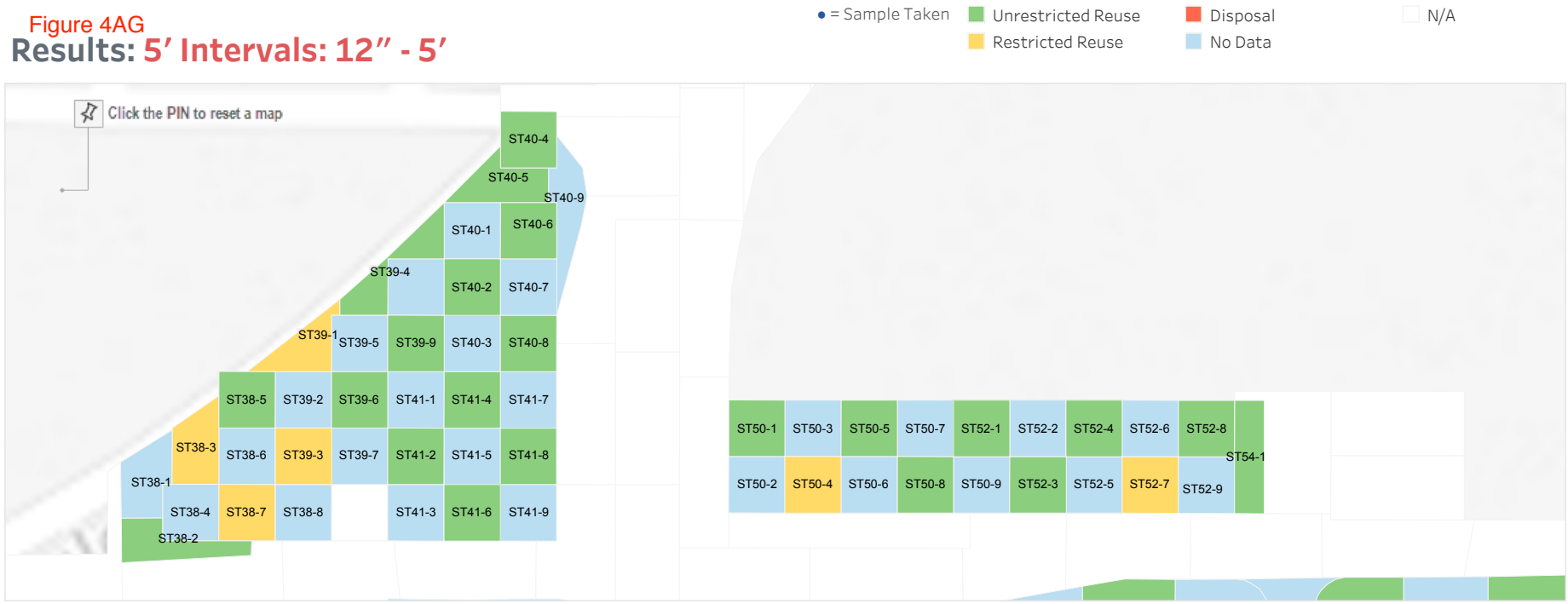


Figure 4AH

Results: 5’ Intervals: 5’ - 10’

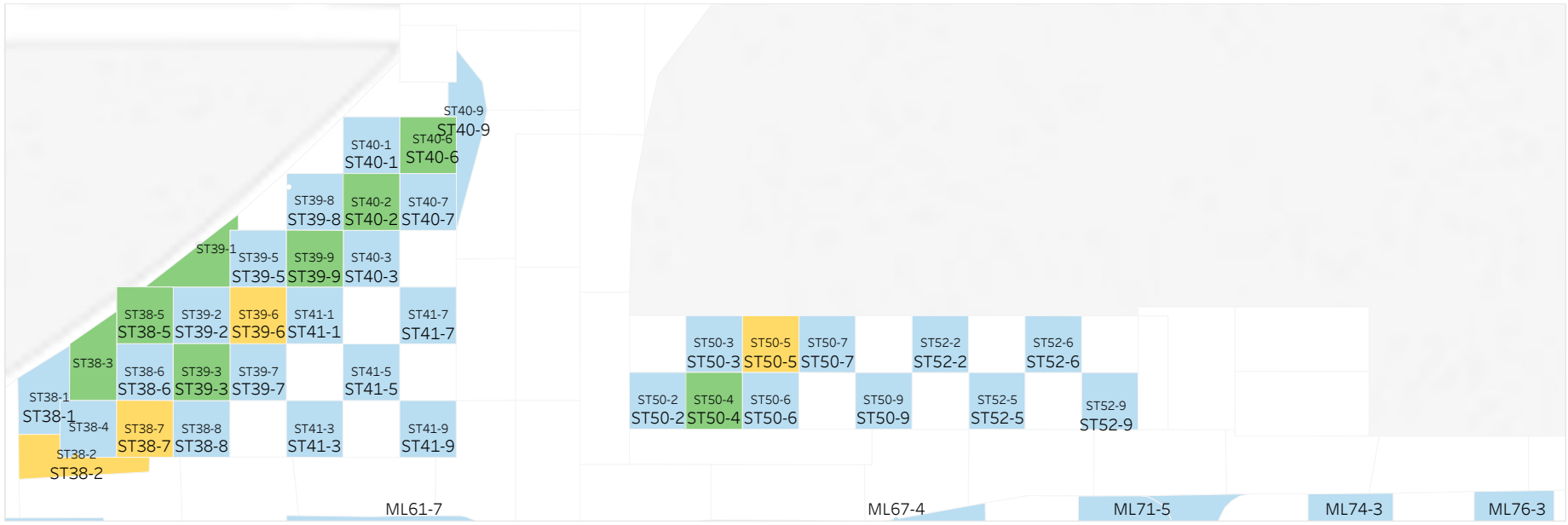


Figure 4AI

Results: 5’ Intervals: 10’ - 15’

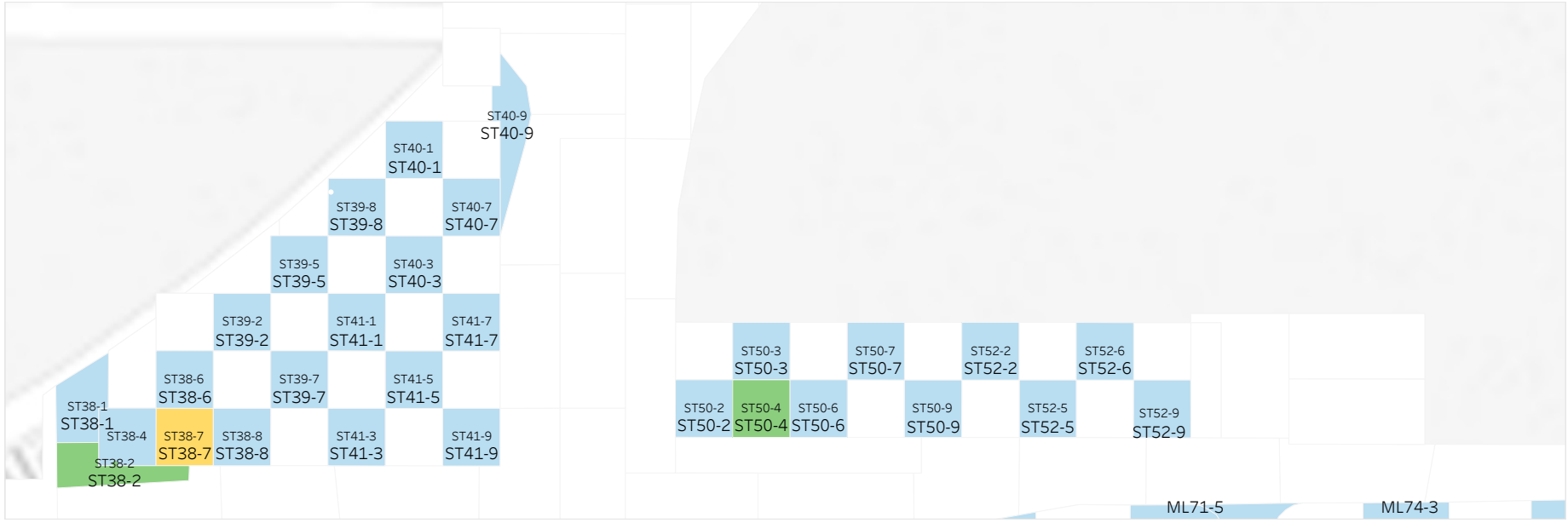
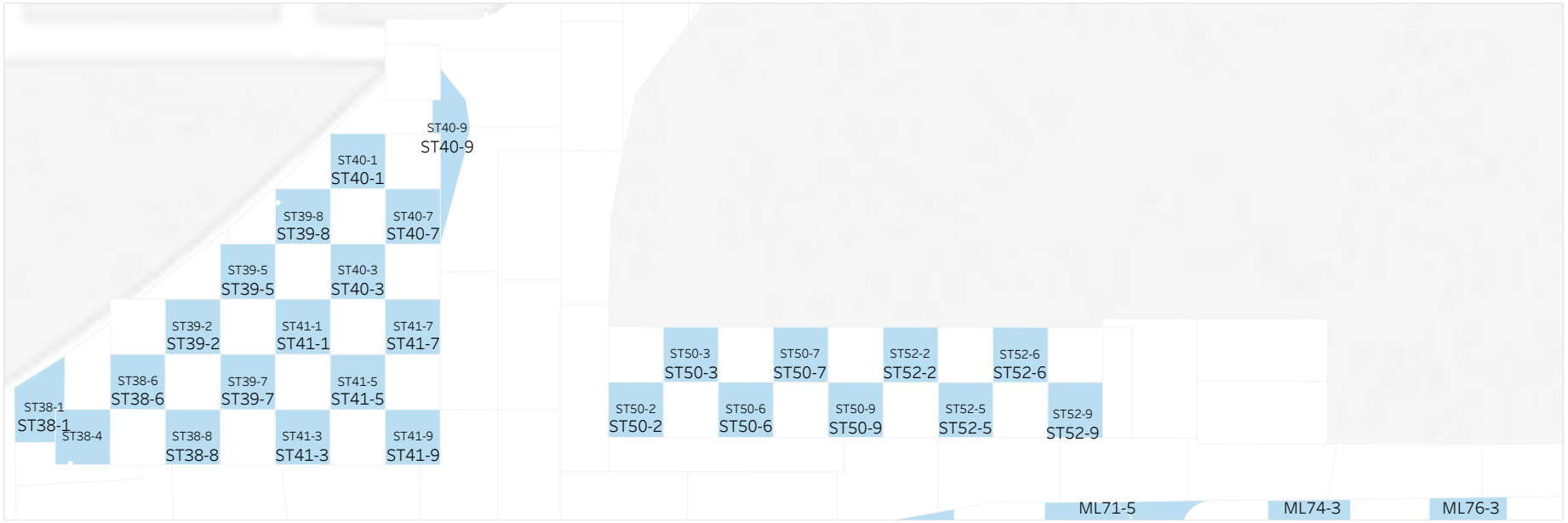


Figure 4AJ

Results: 5’ Intervals: 15’ - 20’



West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4AK

Results: 5’ Intervals: 12” - 5’

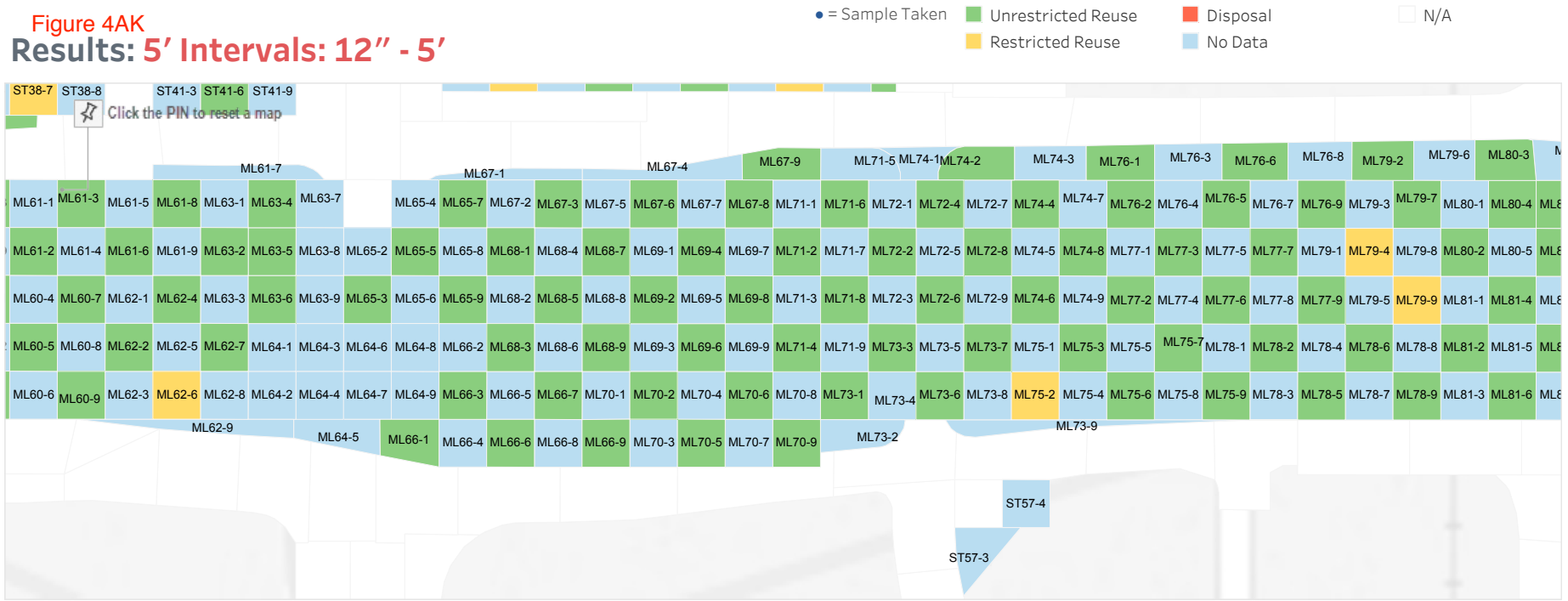


Figure 4AL

Results: 5’ Intervals: 5’ - 10’

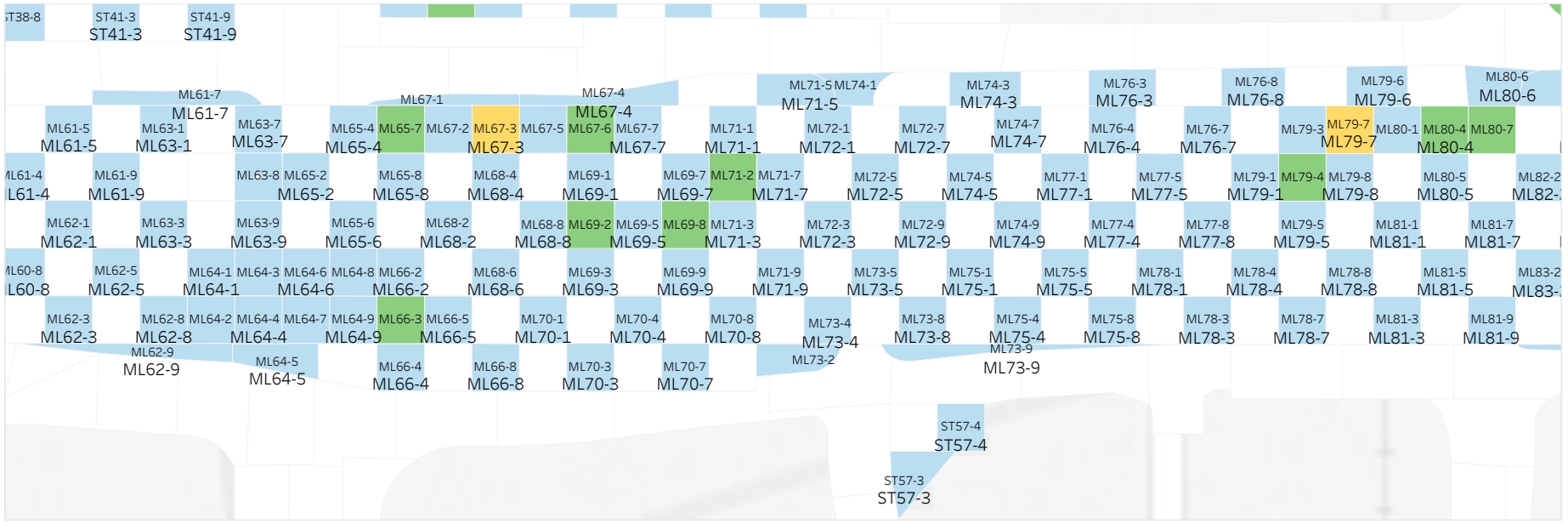


Figure 4AM

Results: 5’ Intervals: 10’ - 15’

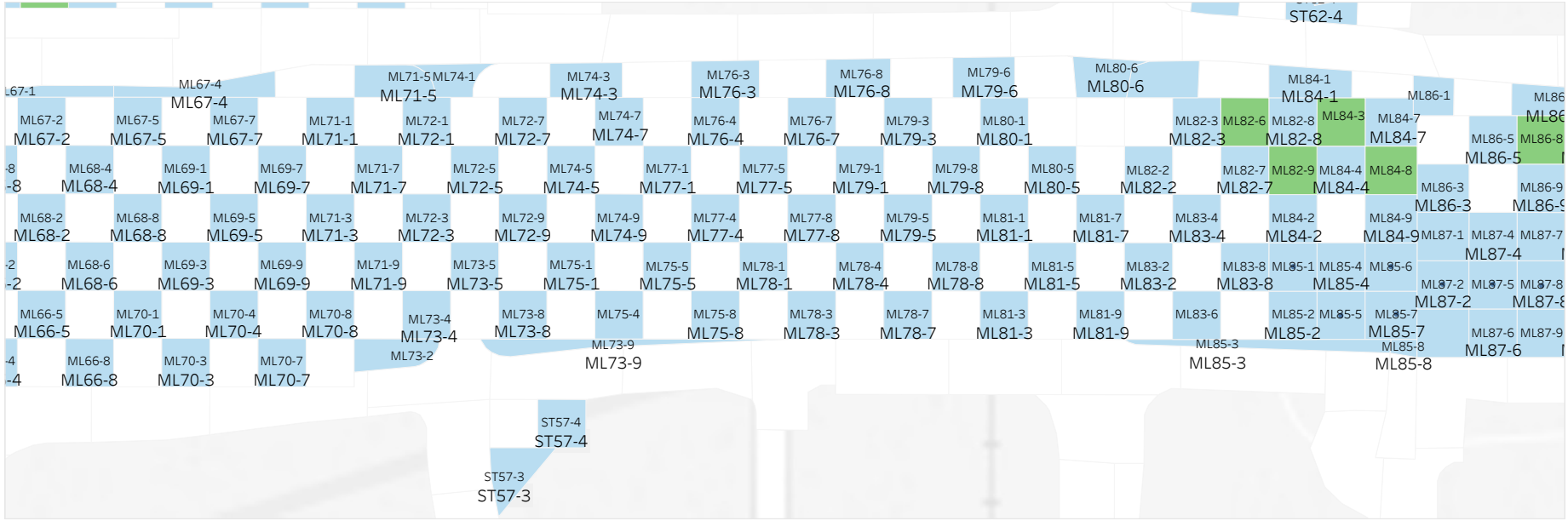
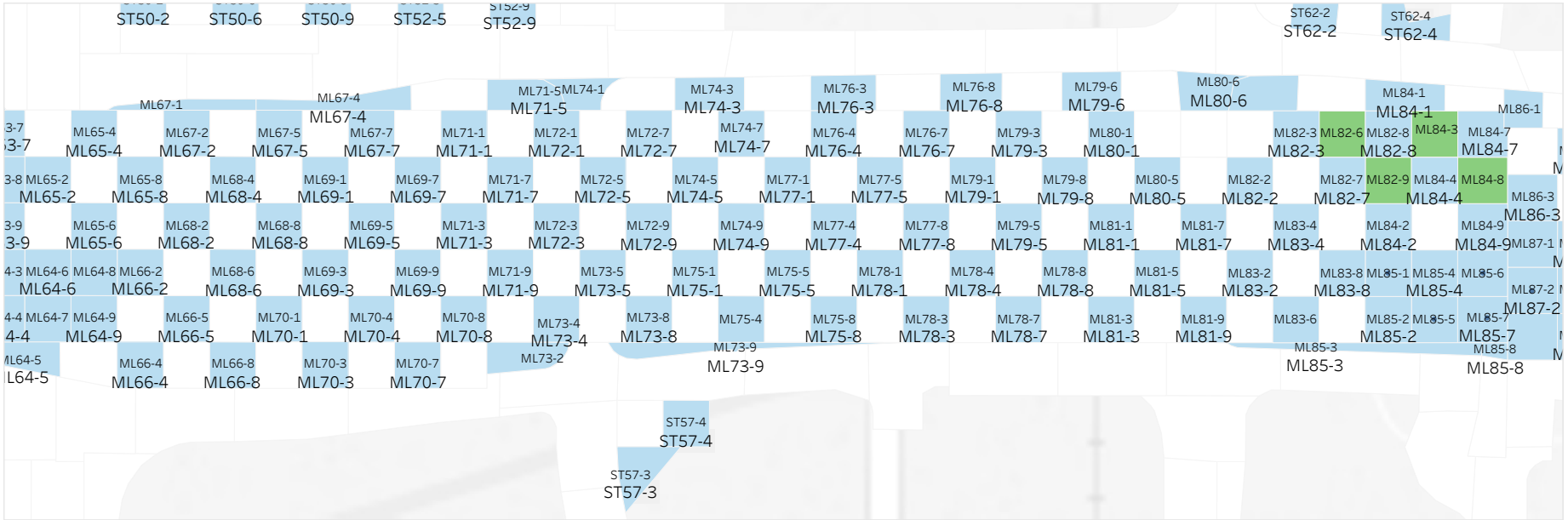


Figure 4AN

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4AO

Results: 5’ Intervals: 12” - 5’

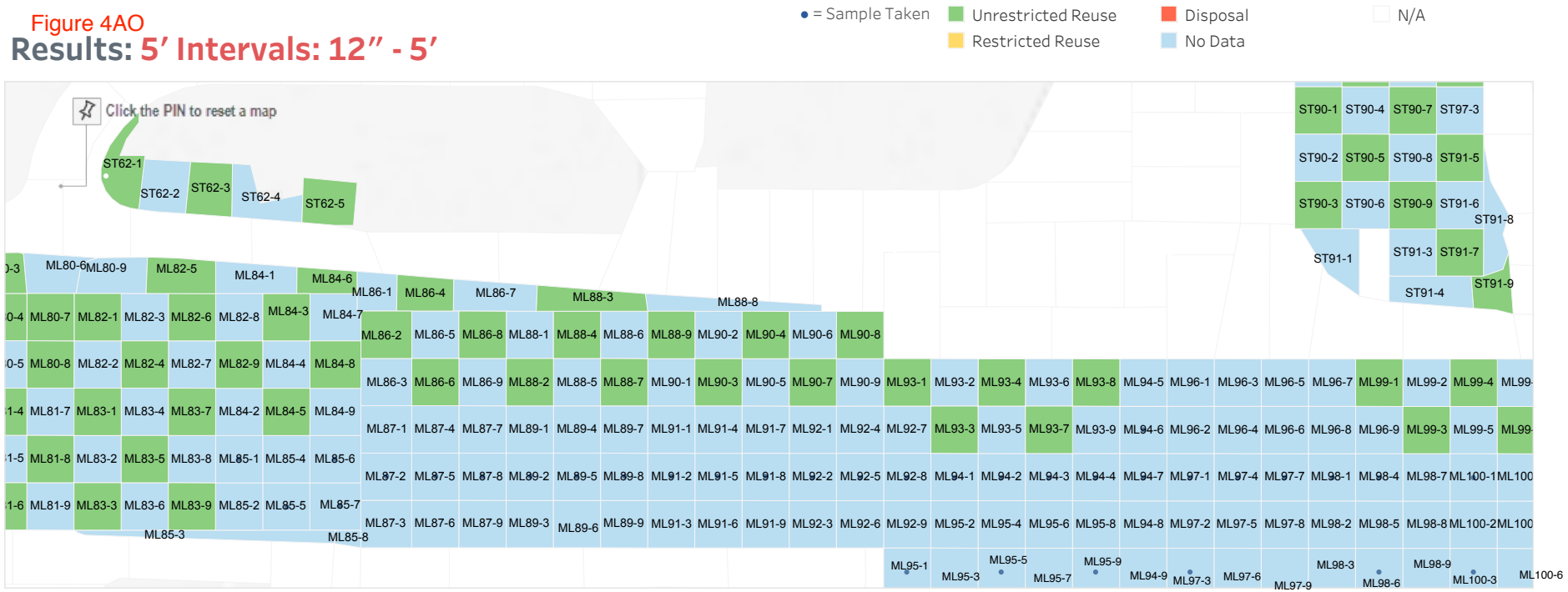


Figure 4AP

Results: 5’ Intervals: 5’ - 10’

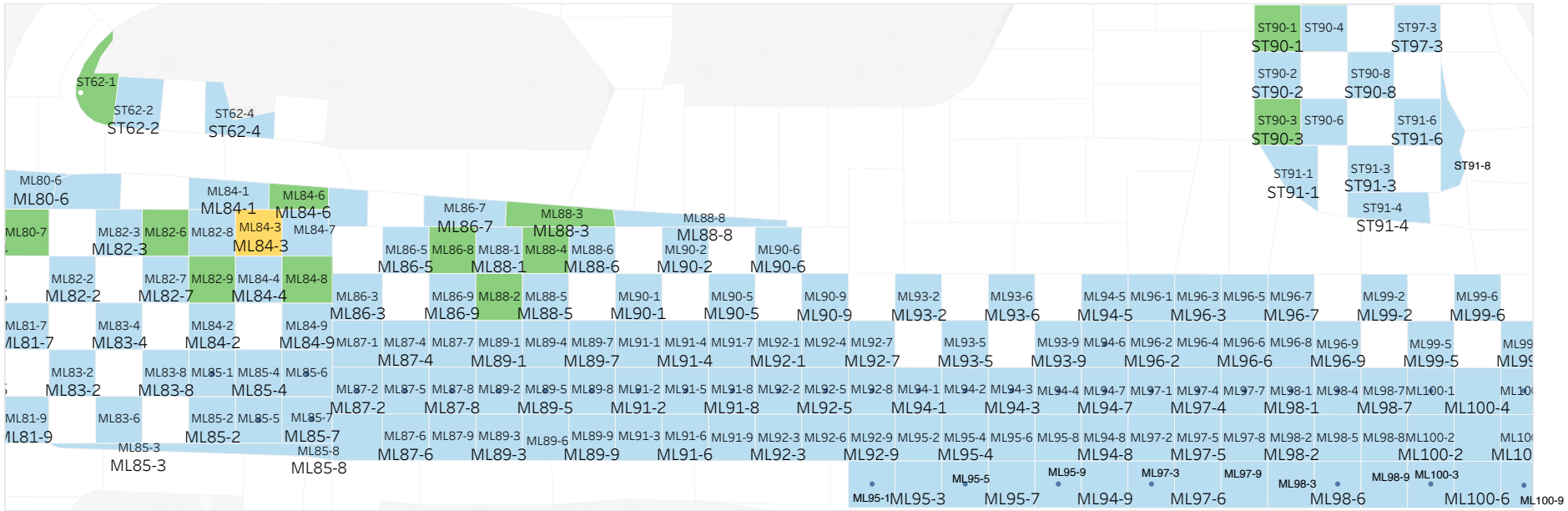


Figure 4AQ

Results: 5’ Intervals: 10’ - 15’

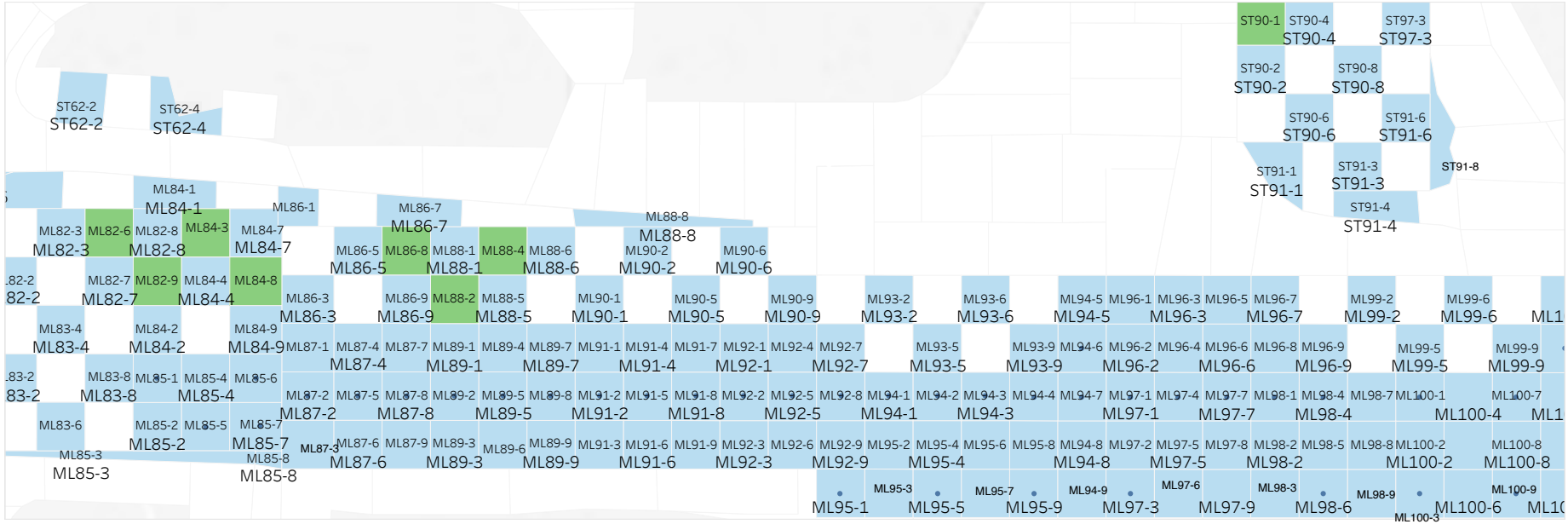
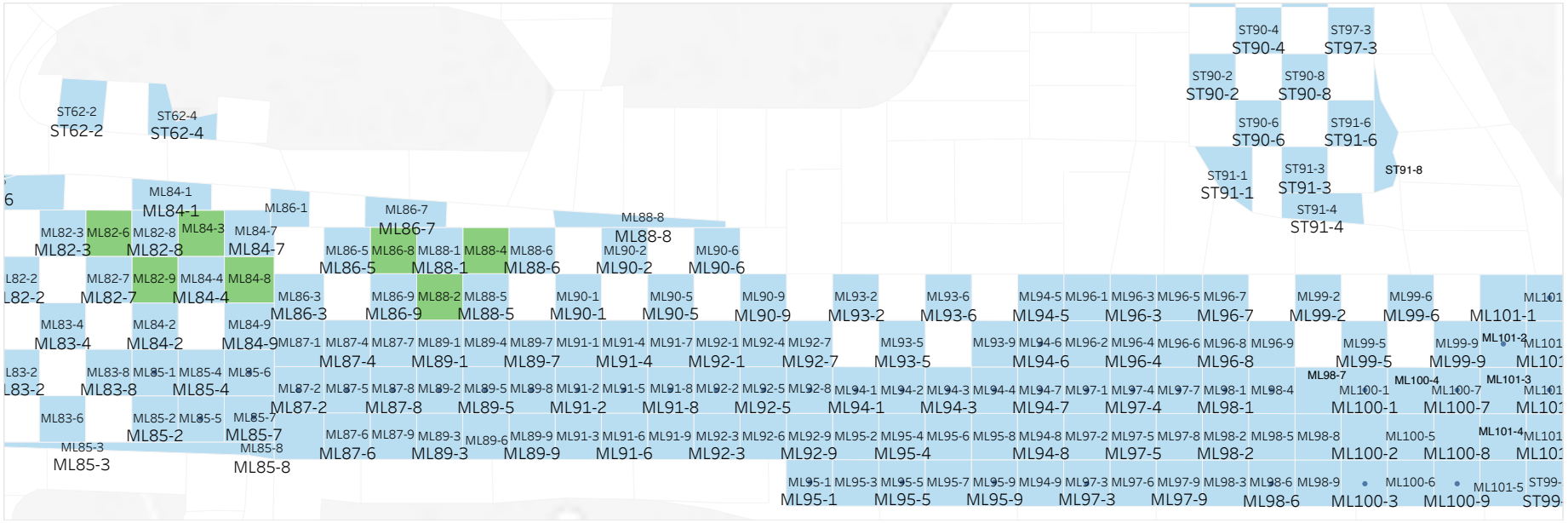


Figure 4AR

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4AS

Results: 5’ Intervals: 12” - 5’

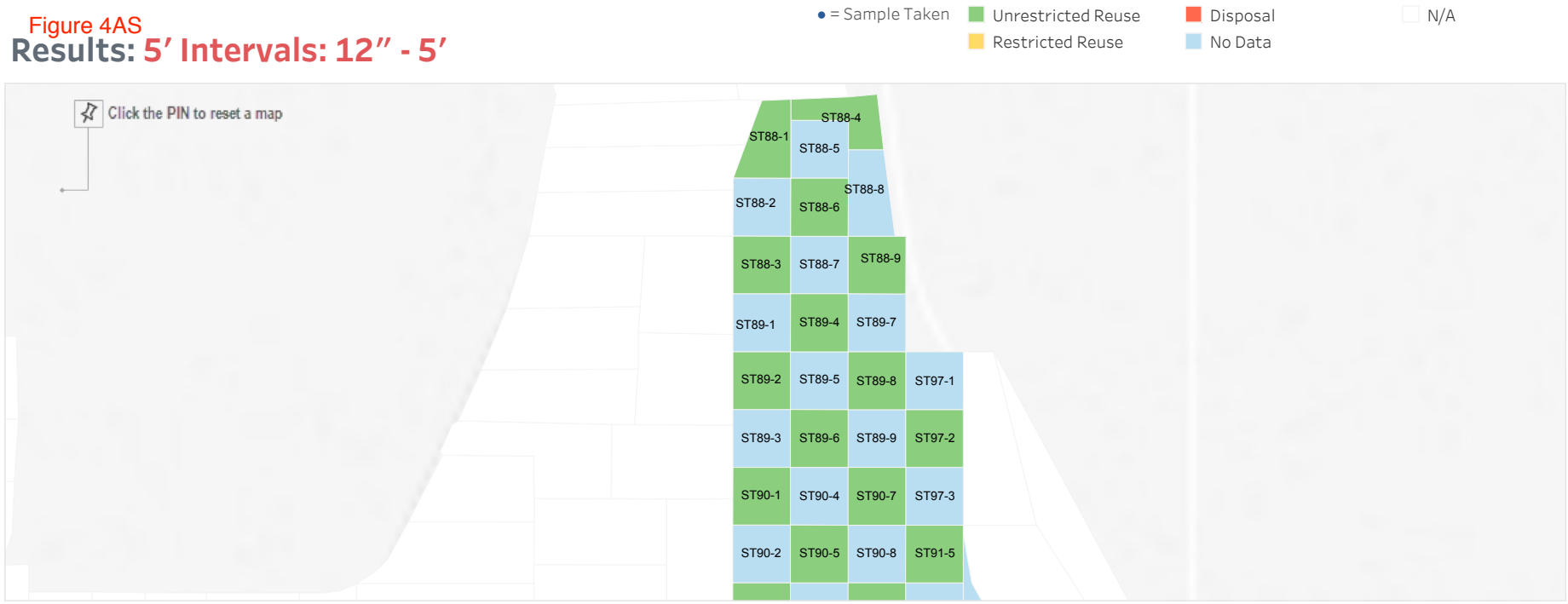


Figure 4AT

Results: 5’ Intervals: 5’ - 10’

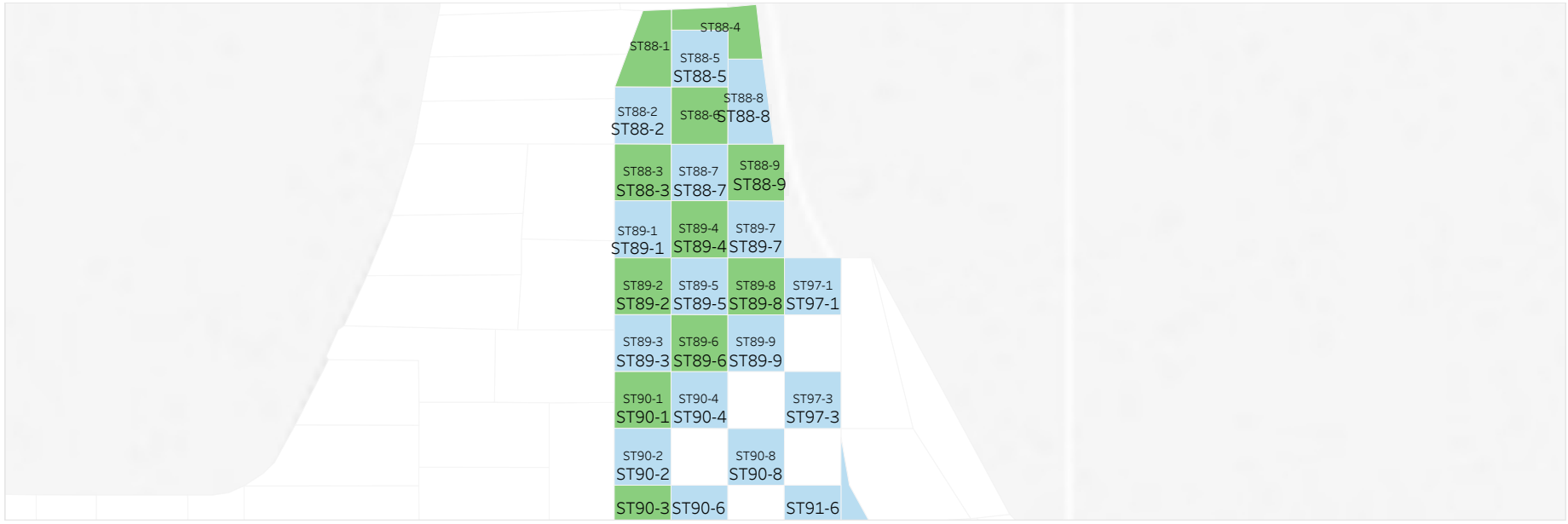


Figure 4AU

Results: 5’ Intervals: 10’ - 15’

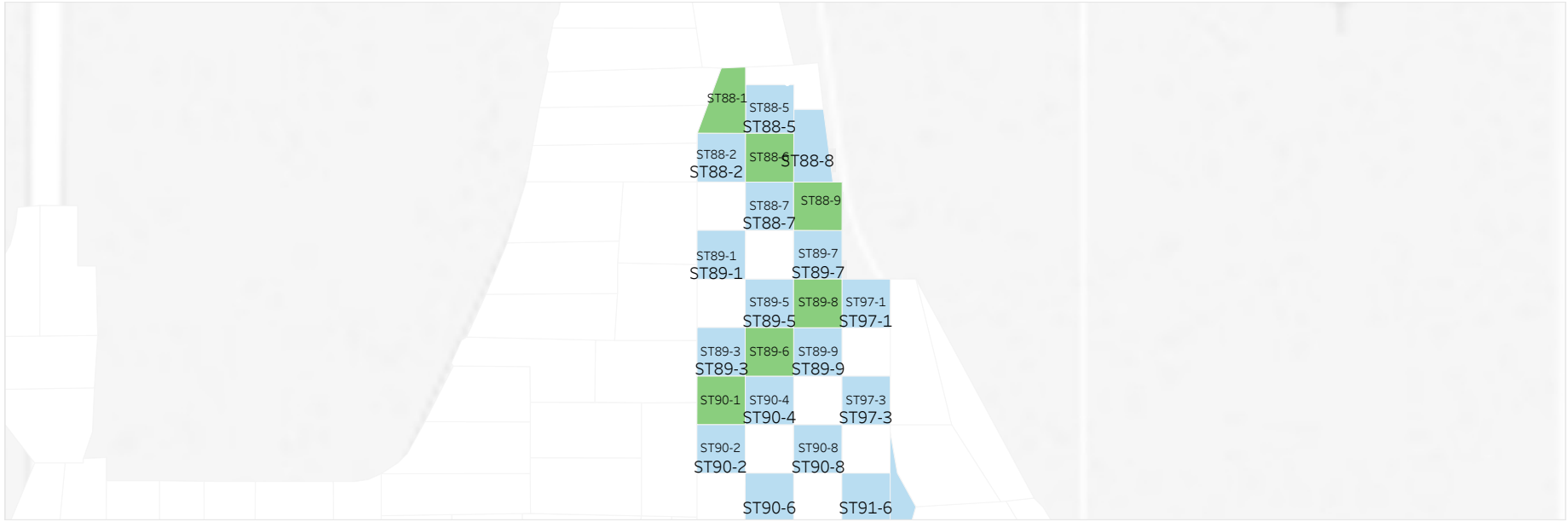
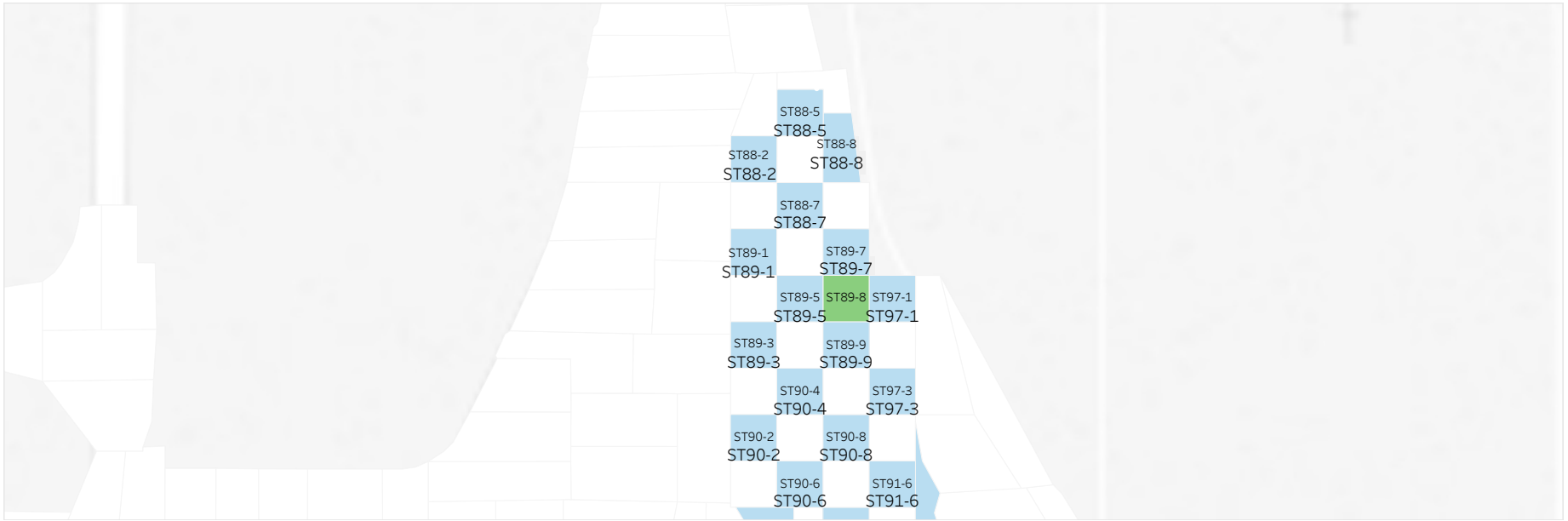


Figure 4AV

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4AW

Results: 5’ Intervals: 12” - 5’

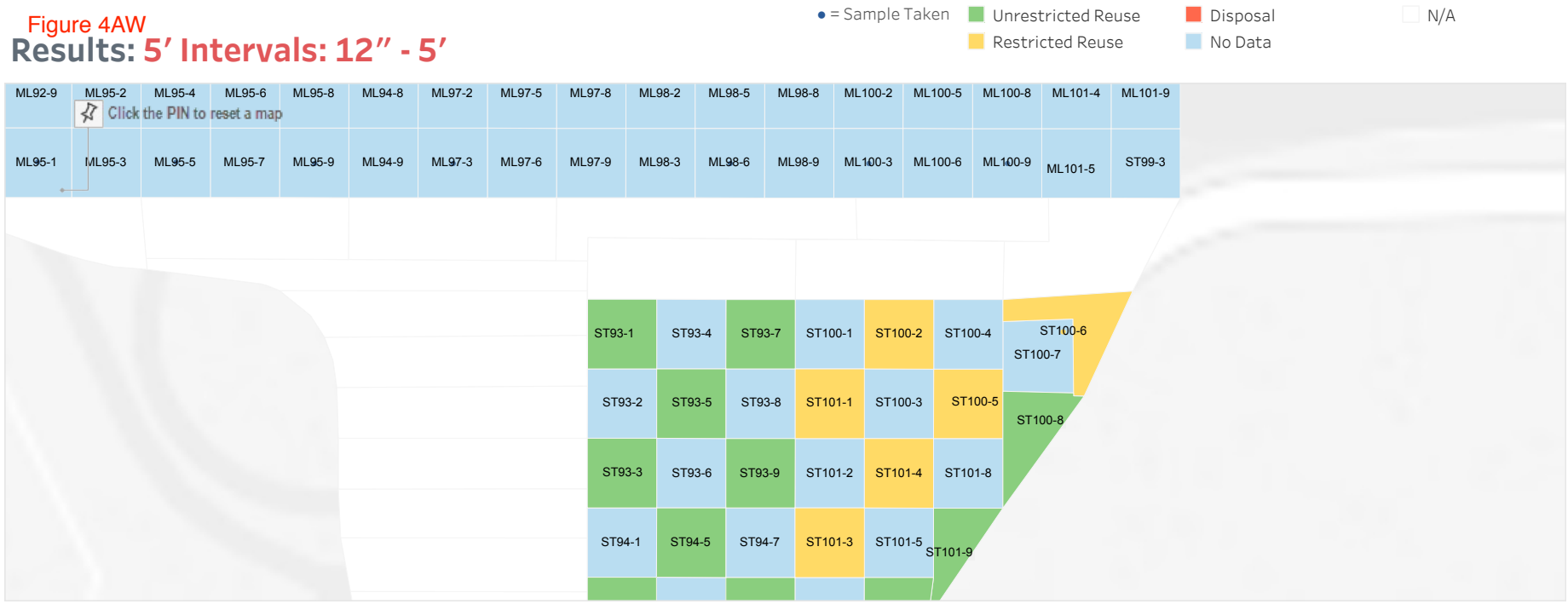


Figure 4AX

Results: 5’ Intervals: 5’ - 10’

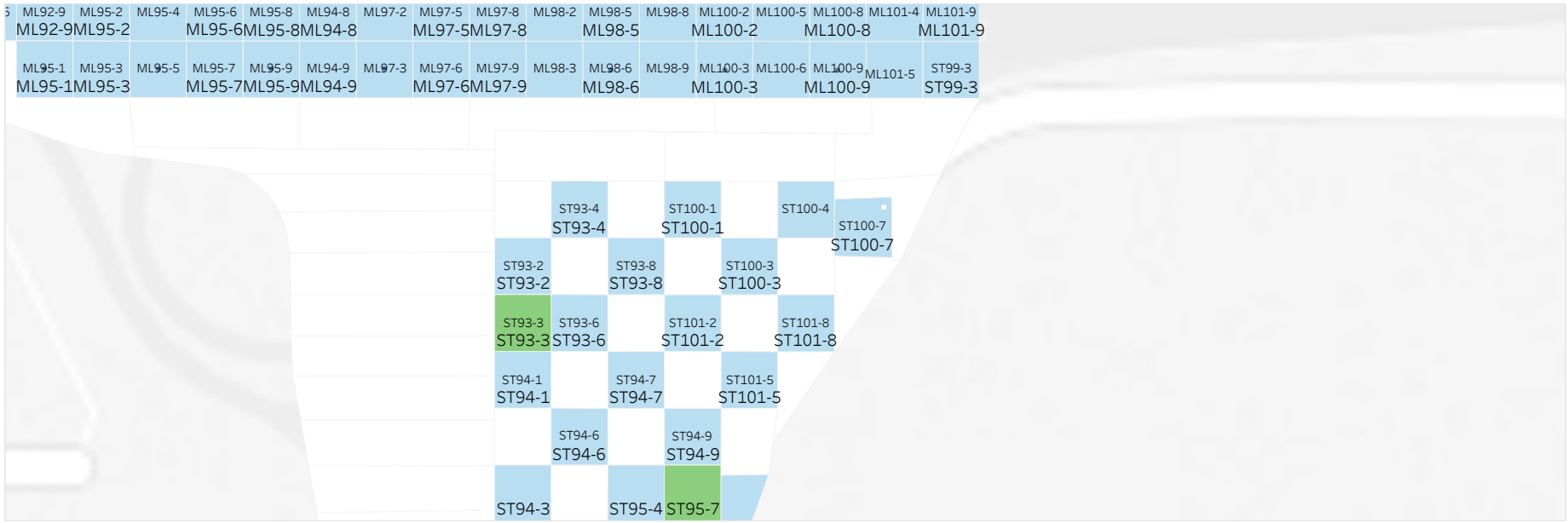


Figure 4AY

Results: 5’ Intervals: 10’ - 15’

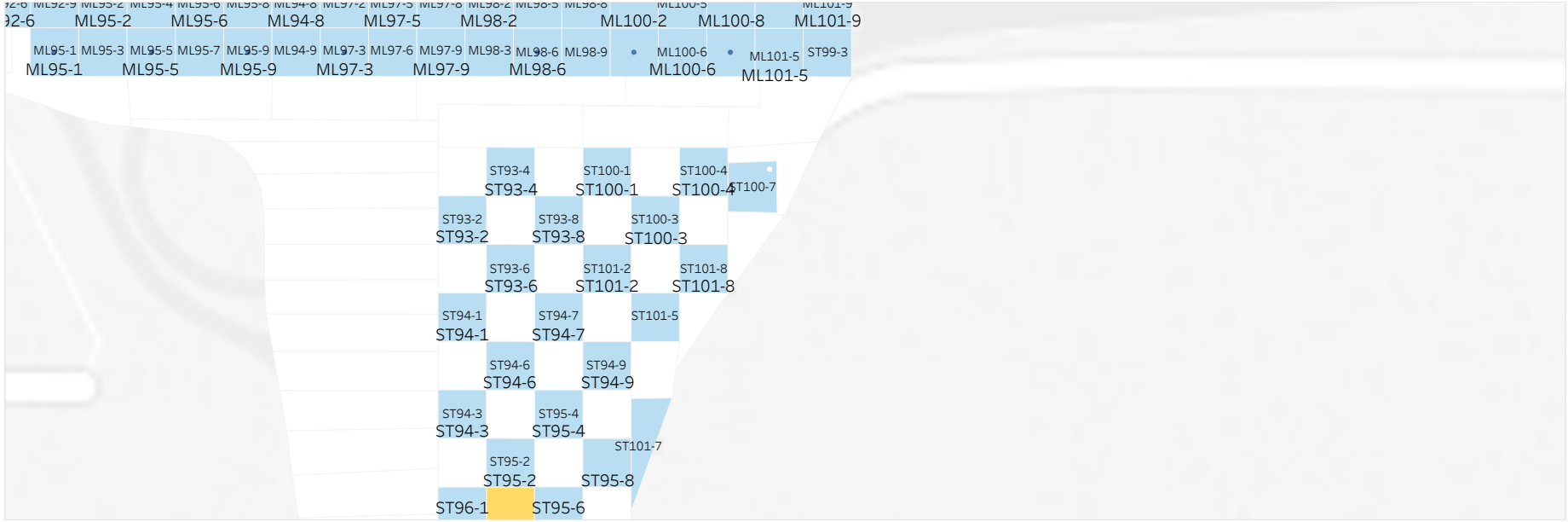
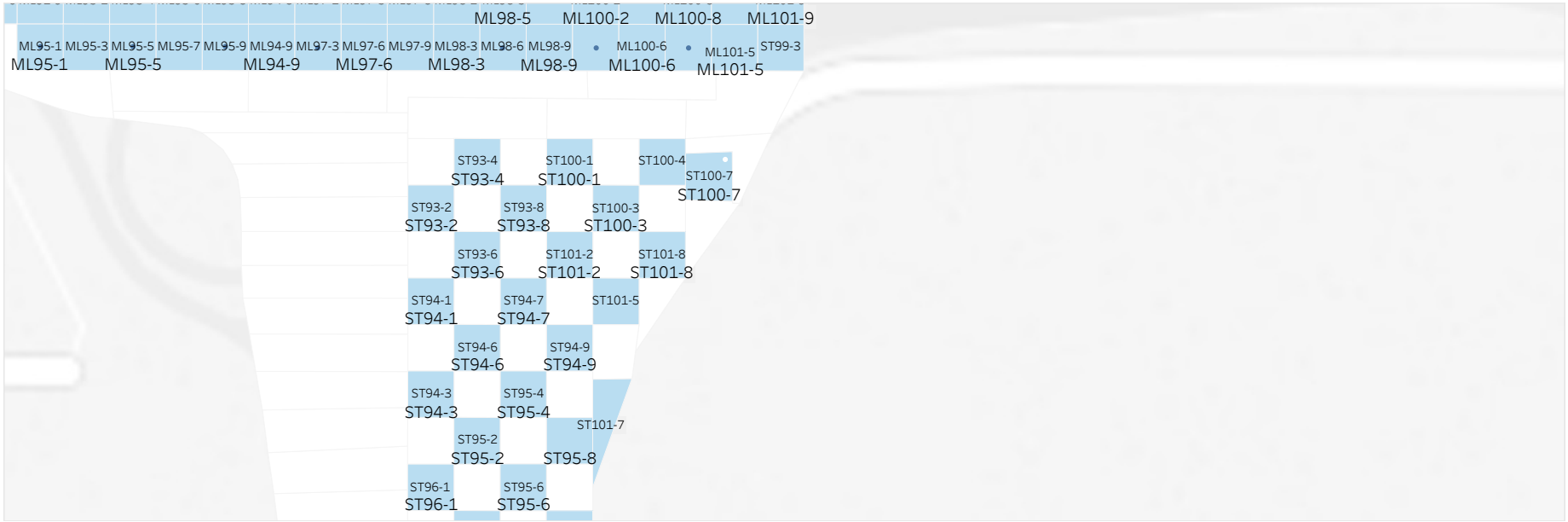


Figure 4AZ

Results: 5’ Intervals: 15’ - 20’



Kiewit meridiam

Central 70

West Segment Environmental Samples: 5-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 4BA

Results: 5’ Intervals: 12” - 5’

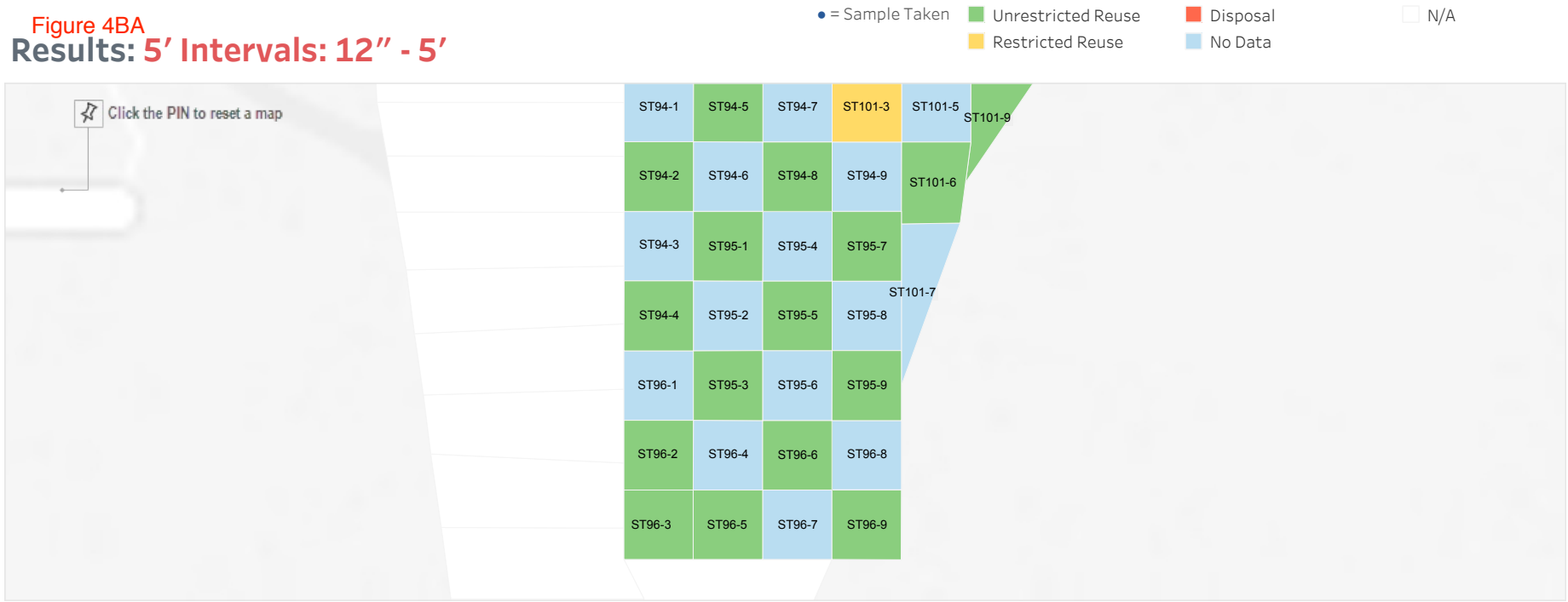


Figure 4BB

Results: 5’ Intervals: 5’ - 10’

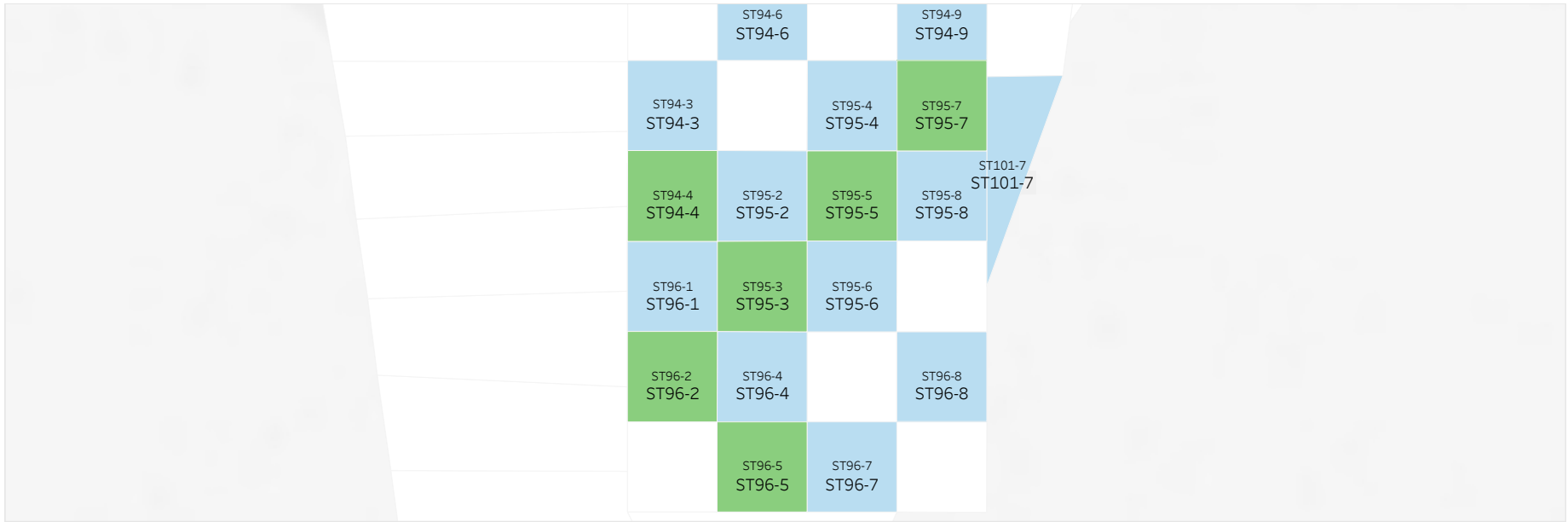


Figure 4BC

Results: 5′ Intervals: 10′ - 15′

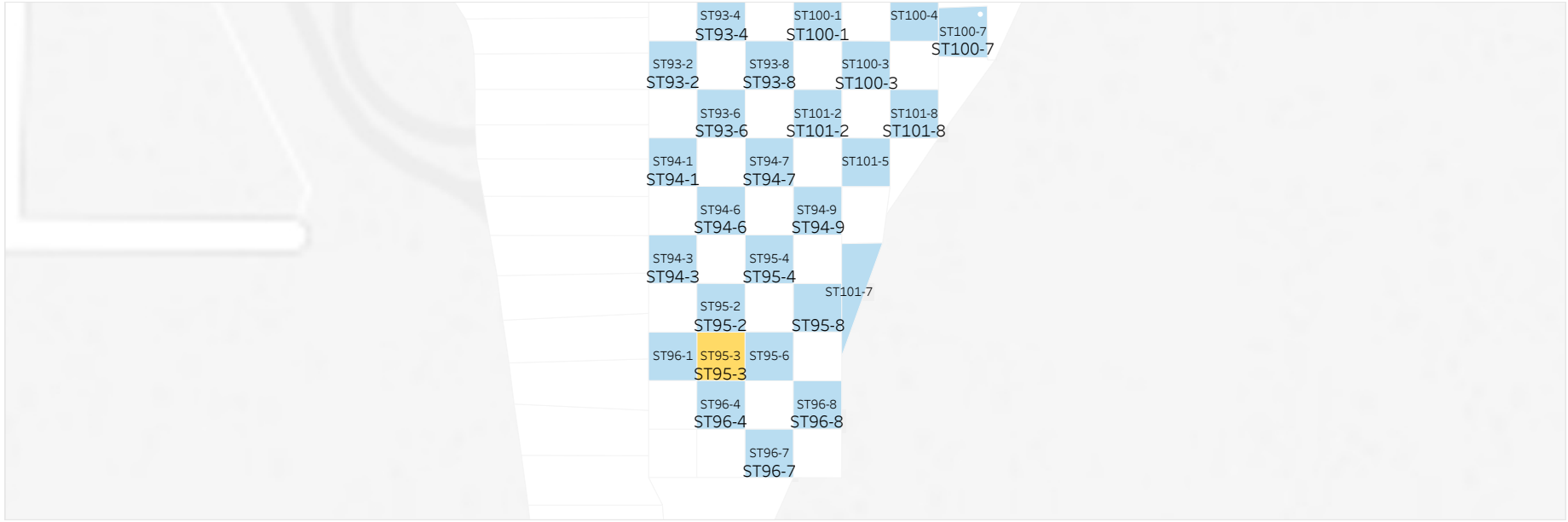
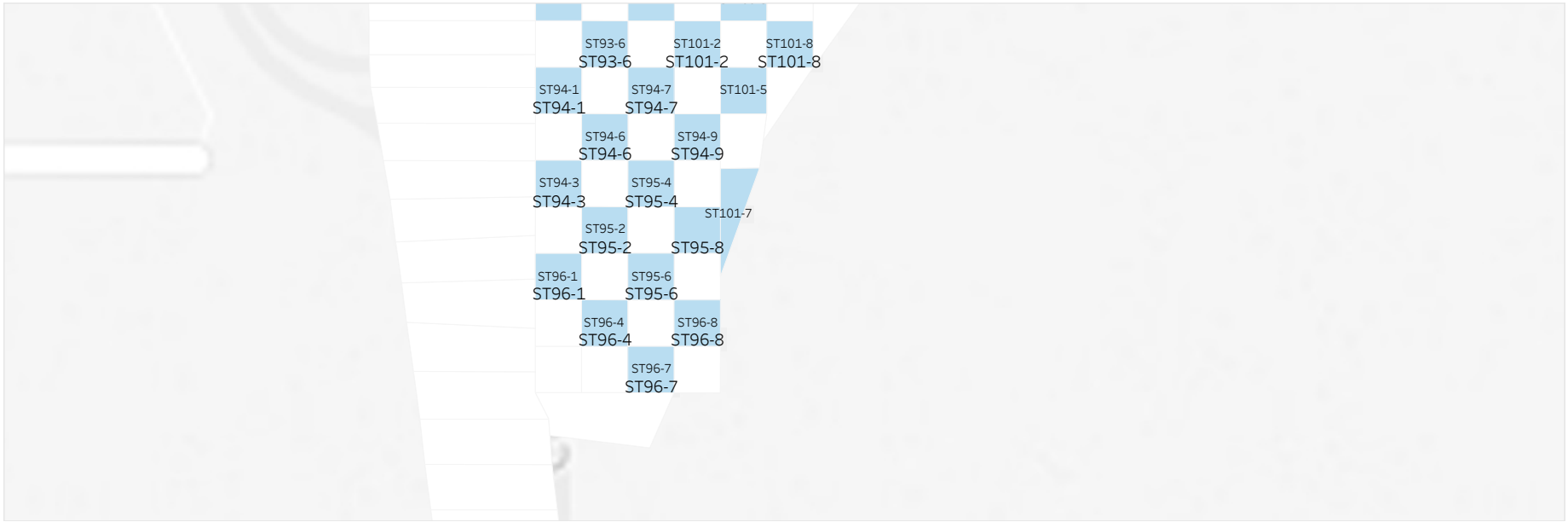


Figure 4BD

Results: 5′ Intervals: 15′ - 20′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Hide Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5A

Results: 2′ Intervals: 12″ - 3′

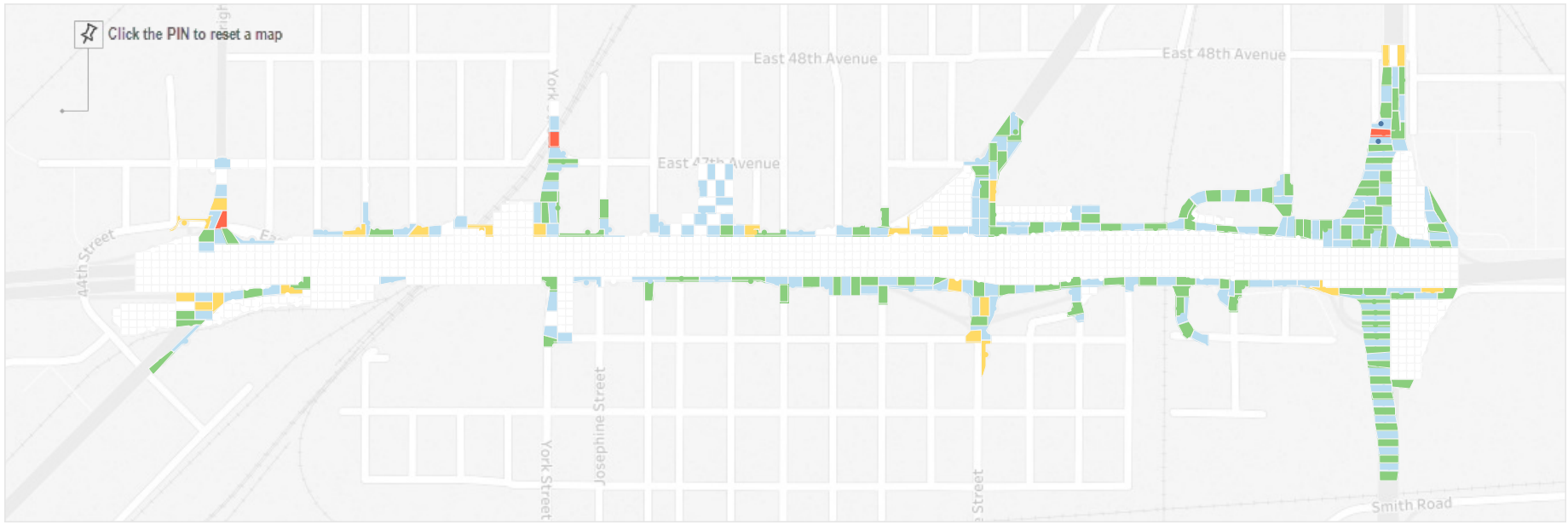


Figure 5B

Results: 2′ Intervals: 3′ - 5′

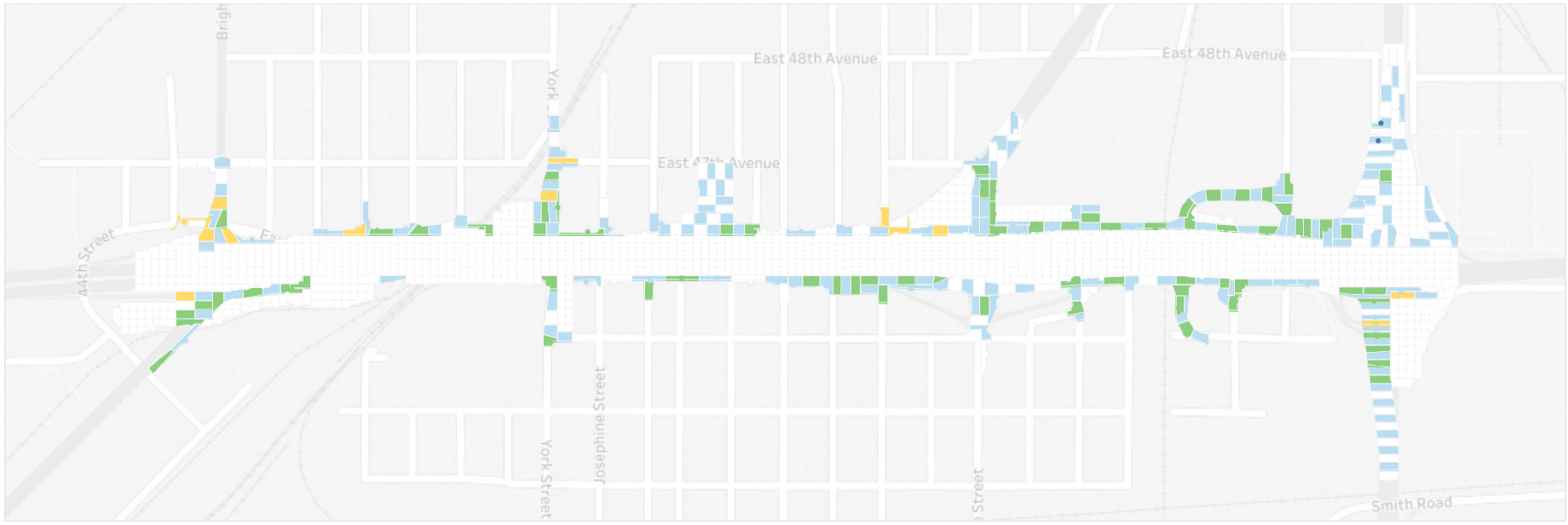
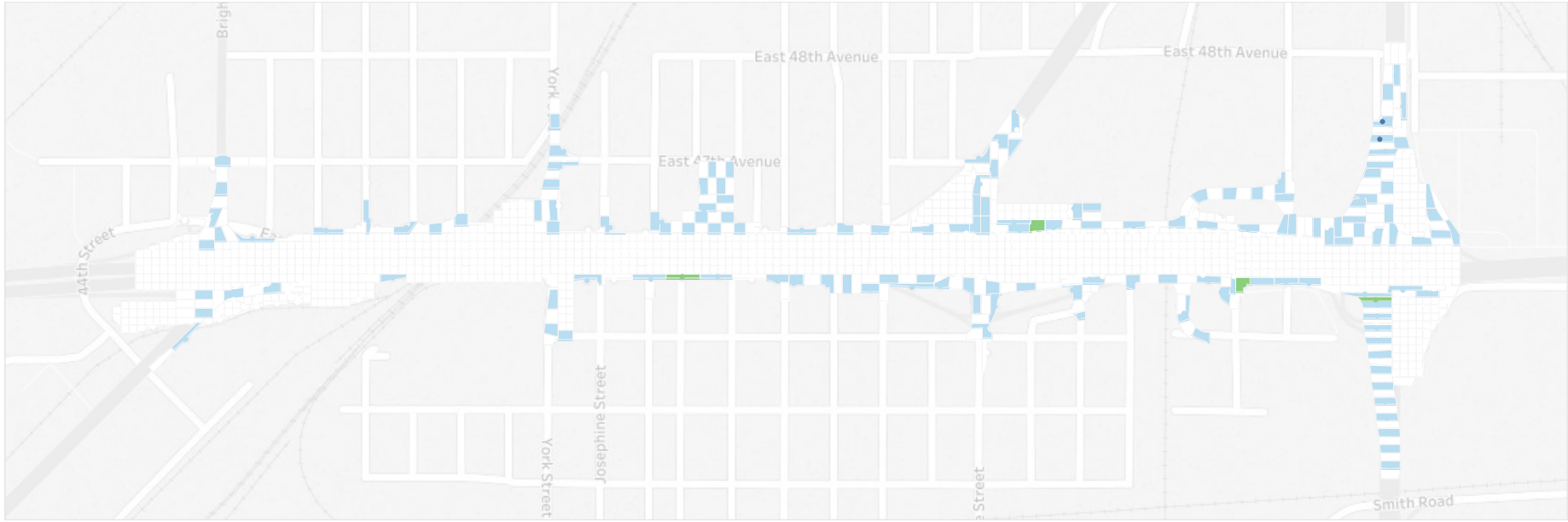


Figure 5C

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5D

Results: 2′ Intervals: 12″ - 3′

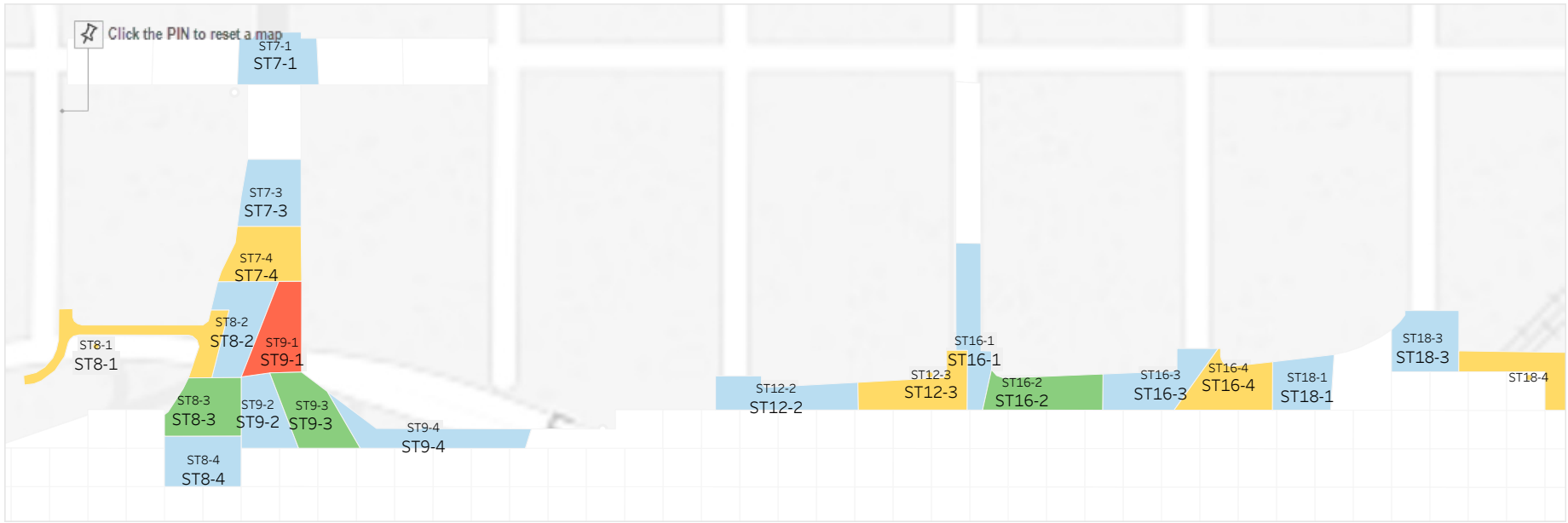


Figure 5E

Results: 2′ Intervals: 3′ - 5′

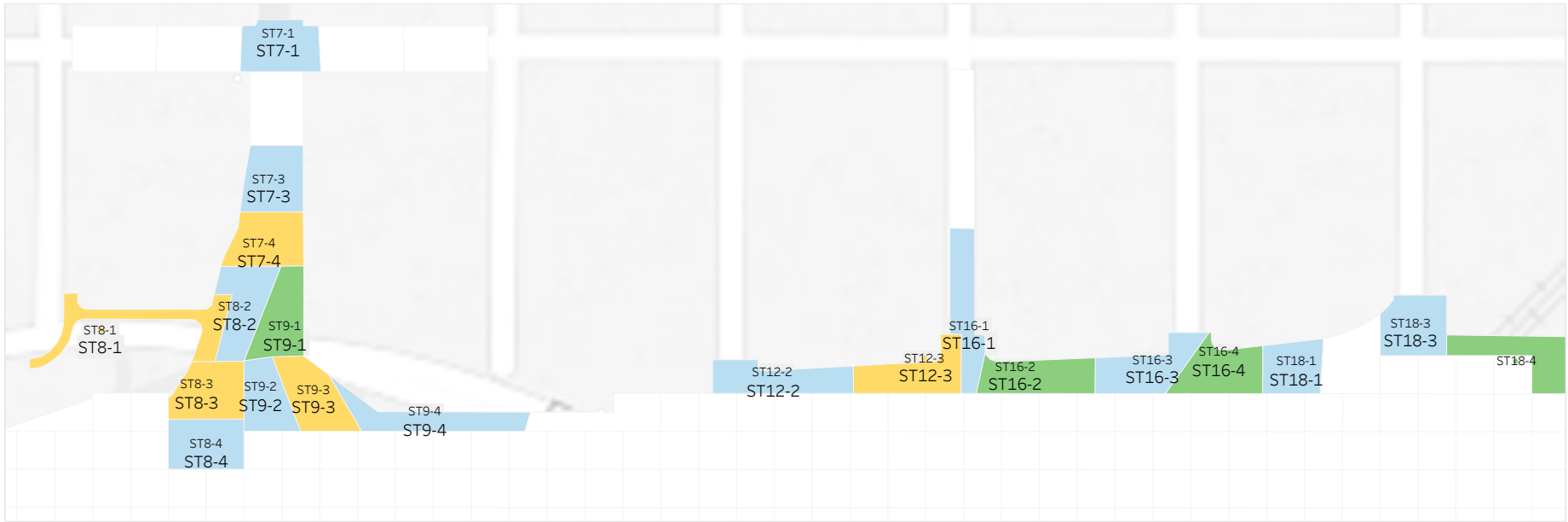
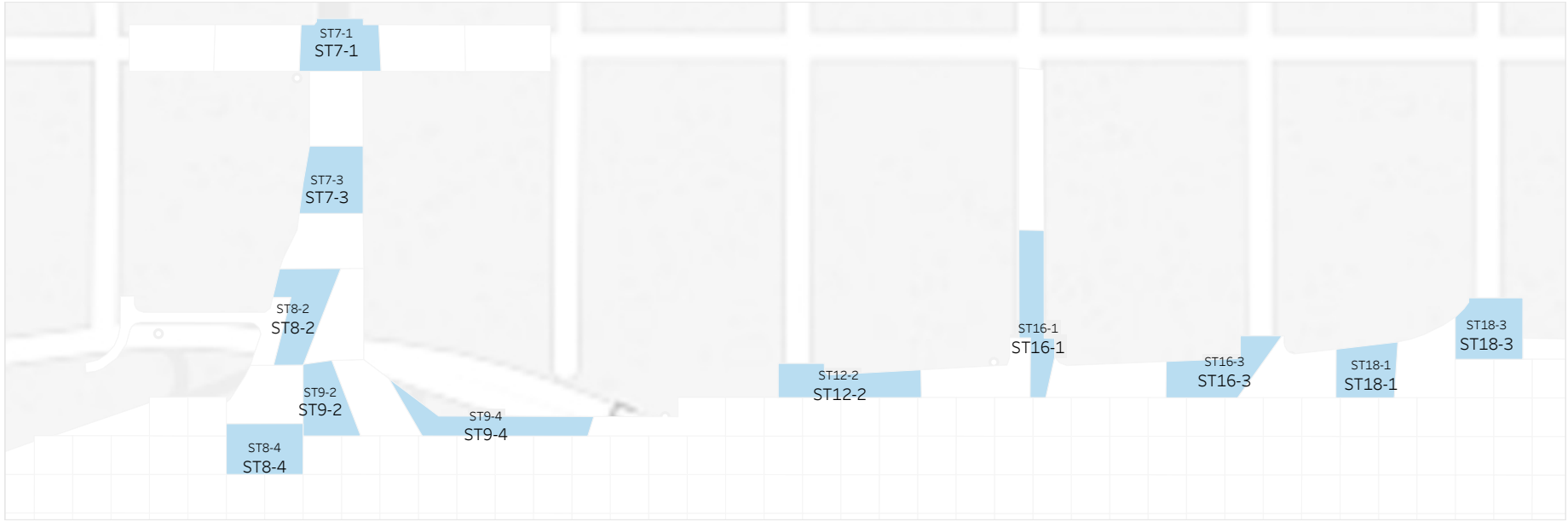


Figure 5F

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5G

Results: 2′ Intervals: 12″ - 3′

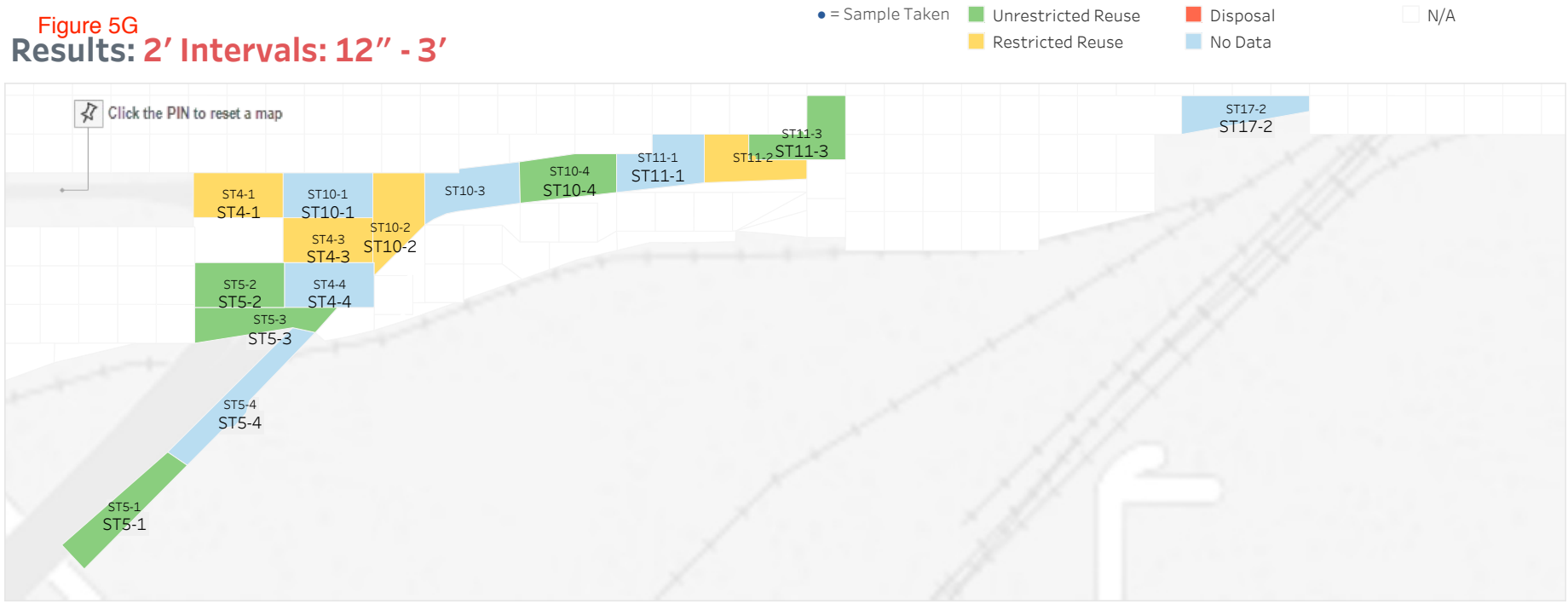


Figure 5H

Results: 2′ Intervals: 3′ - 5′

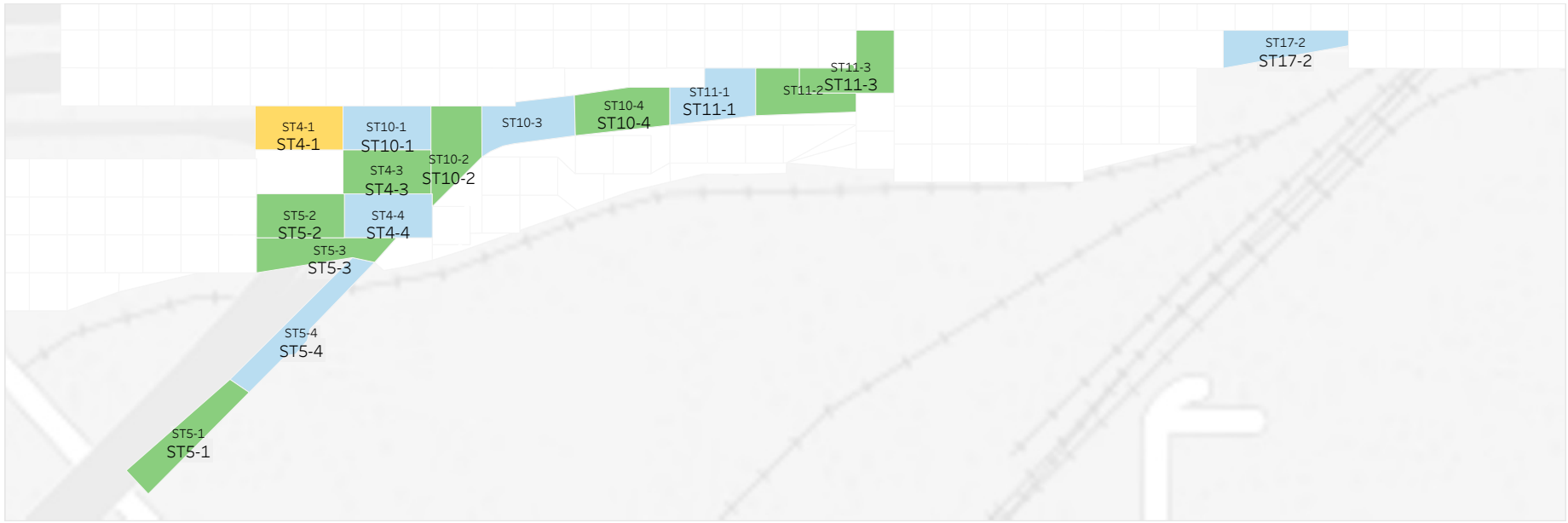
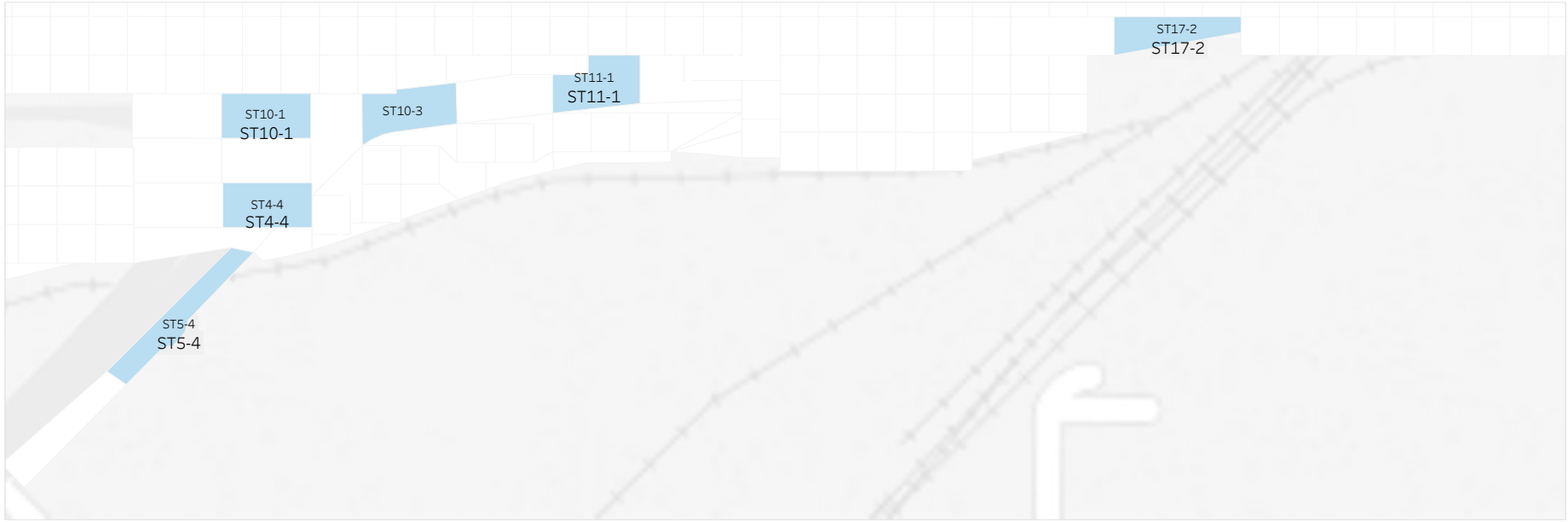


Figure 5l

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5J

Results: 2′ Intervals: 12″ - 3′

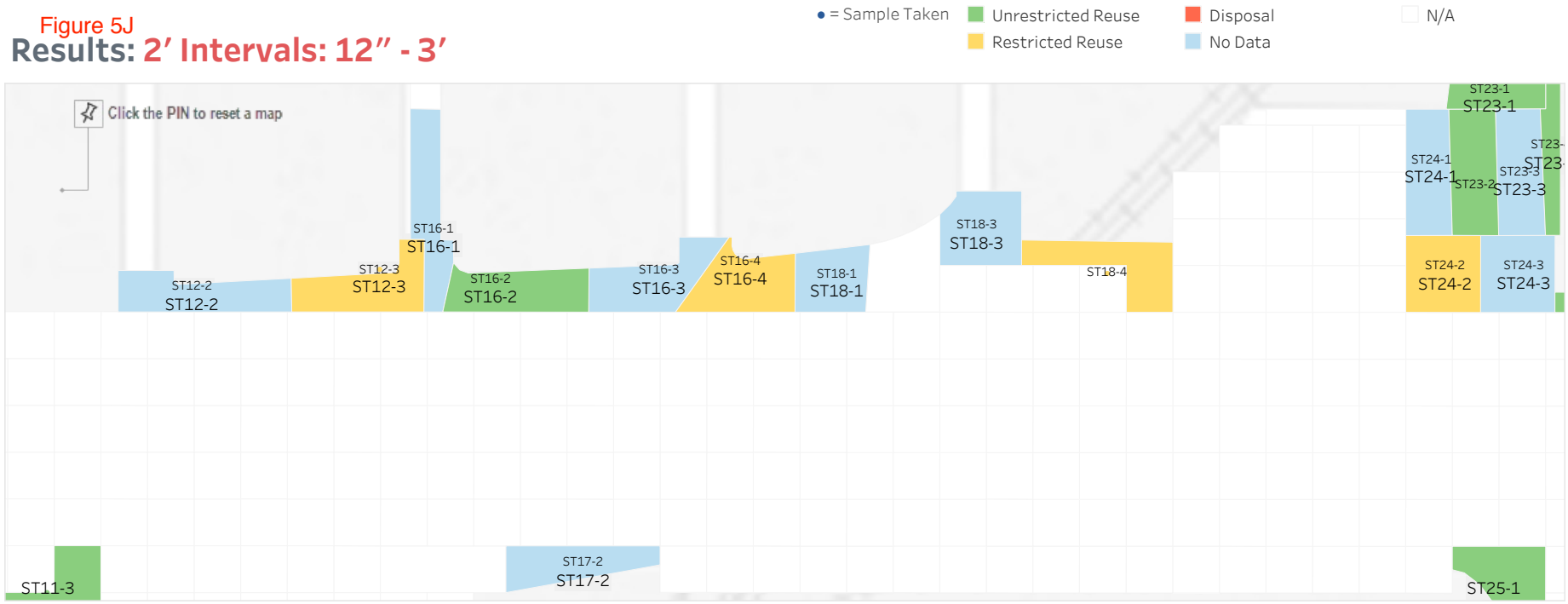


Figure 5K

Results: 2′ Intervals: 3′ - 5′

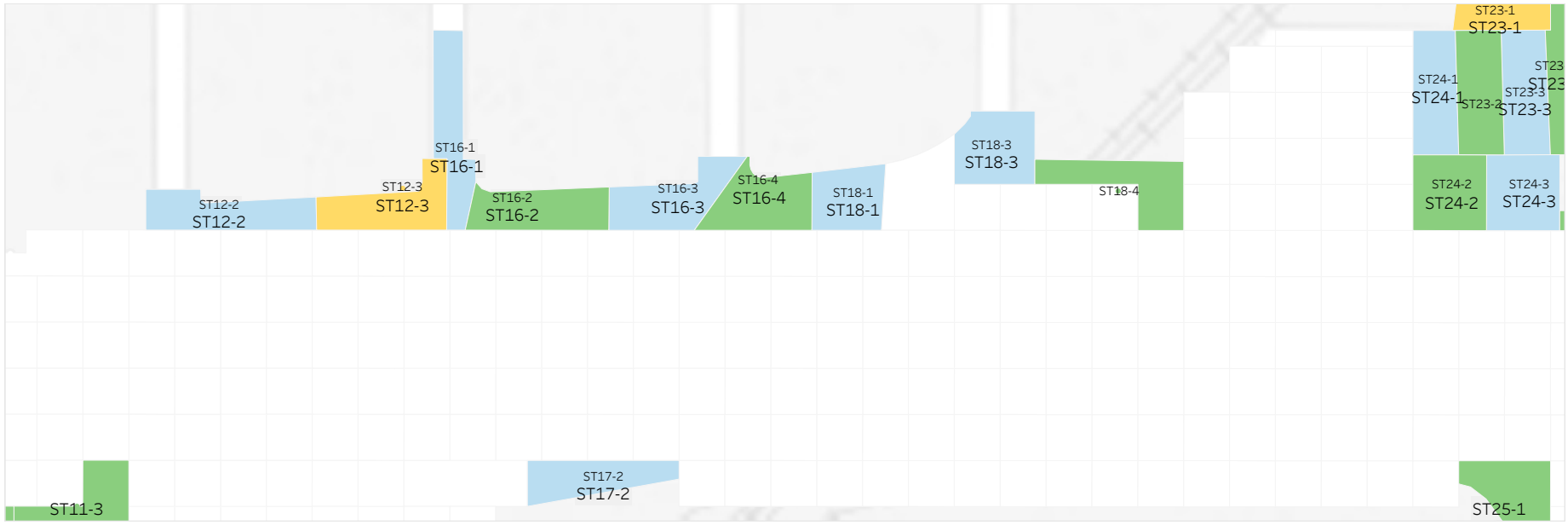
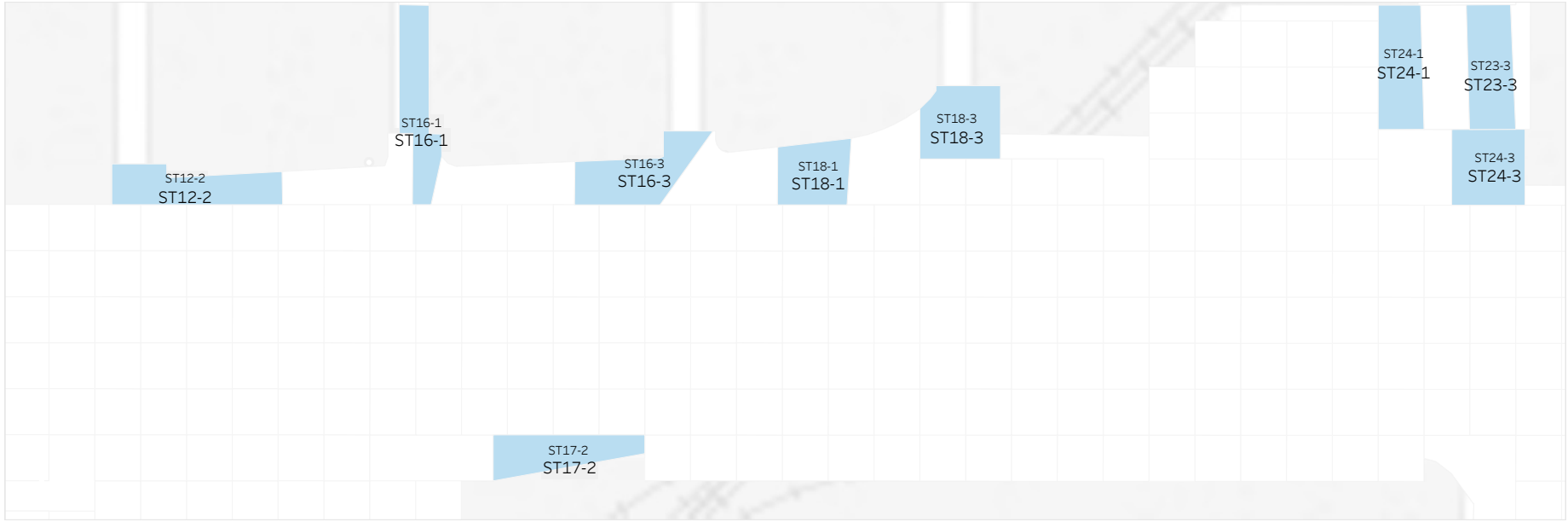


Figure 5L

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5M

Results: 2' Intervals: 12" - 3'

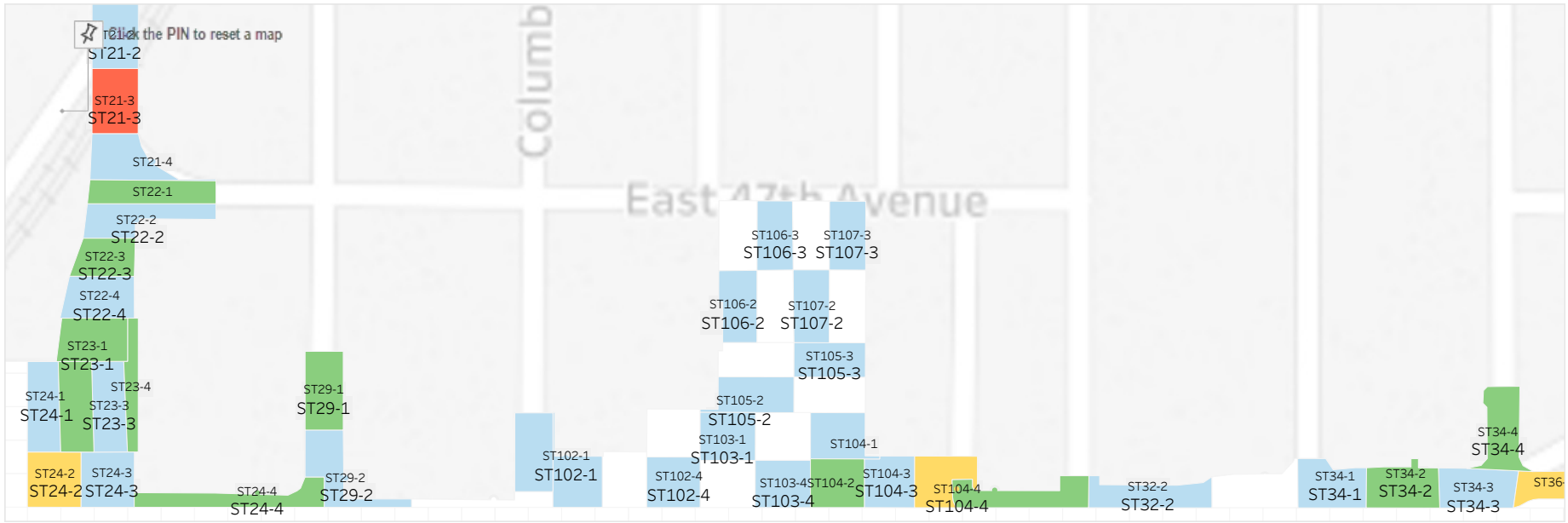


Figure 5N

Results: 2' Intervals: 3' - 5'

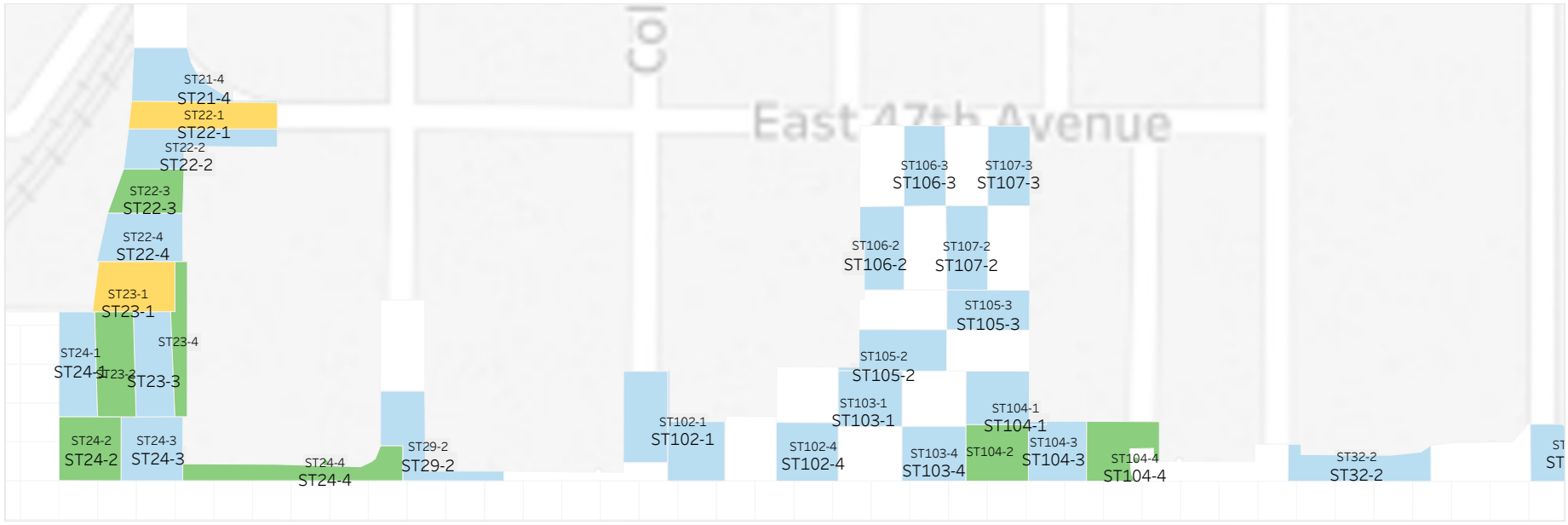
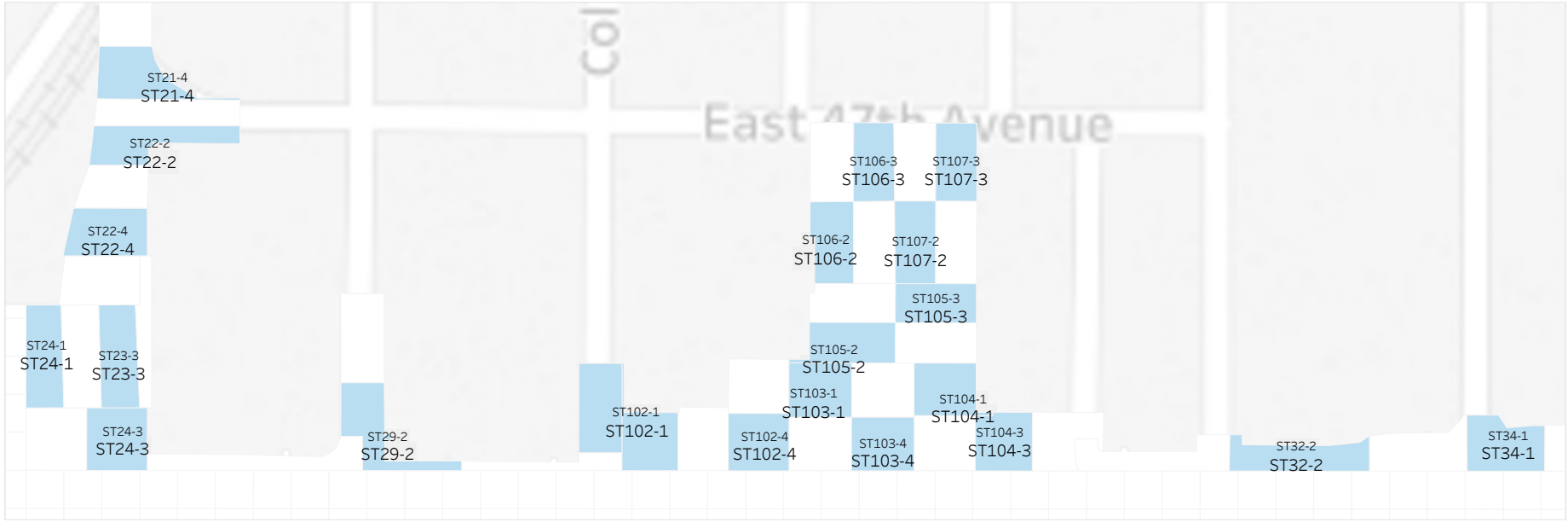


Figure 5O

Results: 2′ Intervals: 5′ - 7′



West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5P

Results: 2′ Intervals: 12″ - 3′

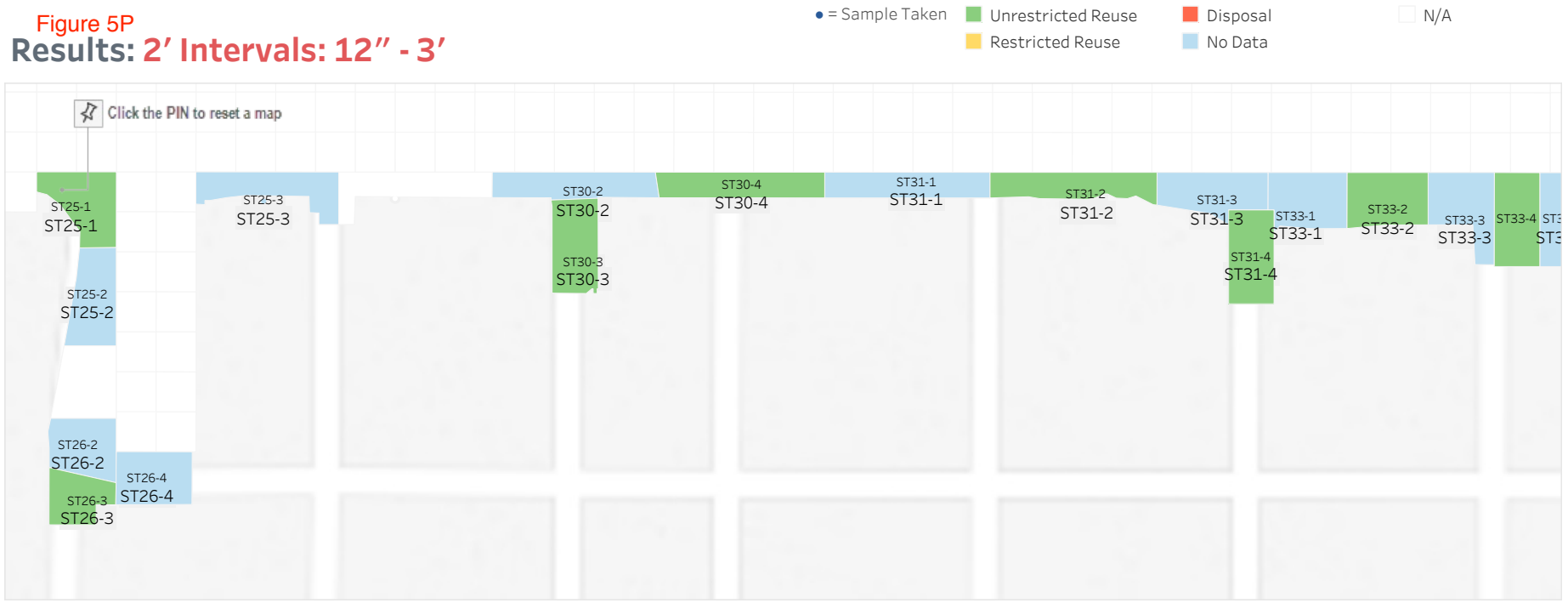


Figure 5Q

Results: 2′ Intervals: 3′ - 5′

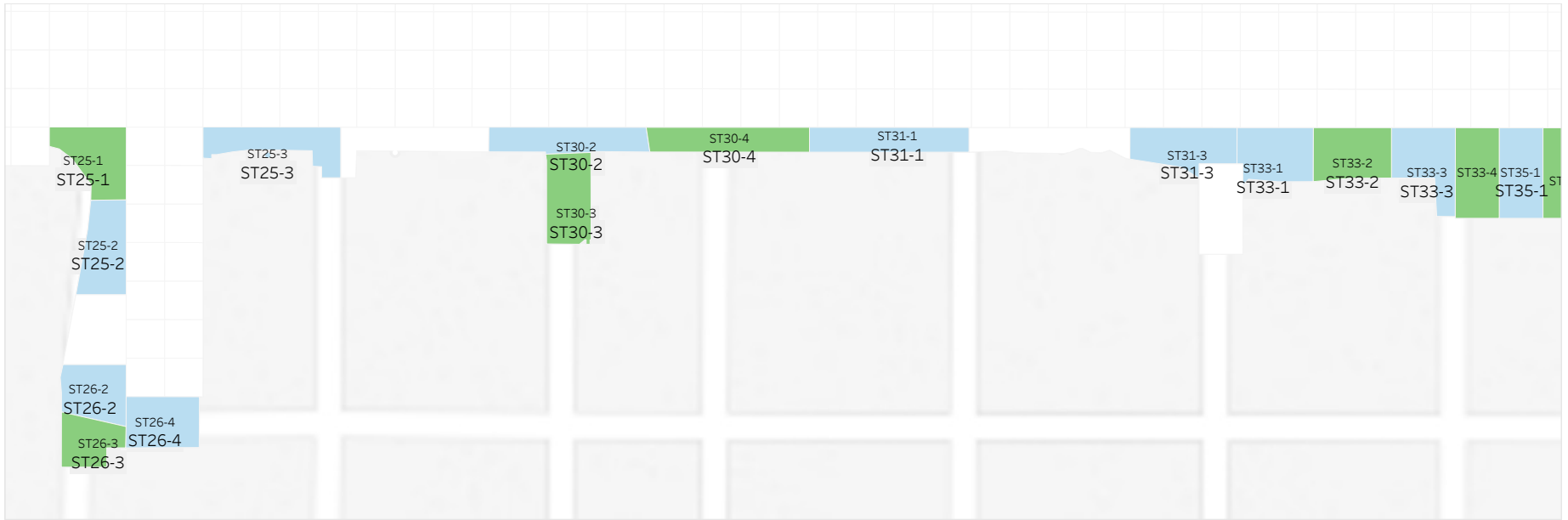
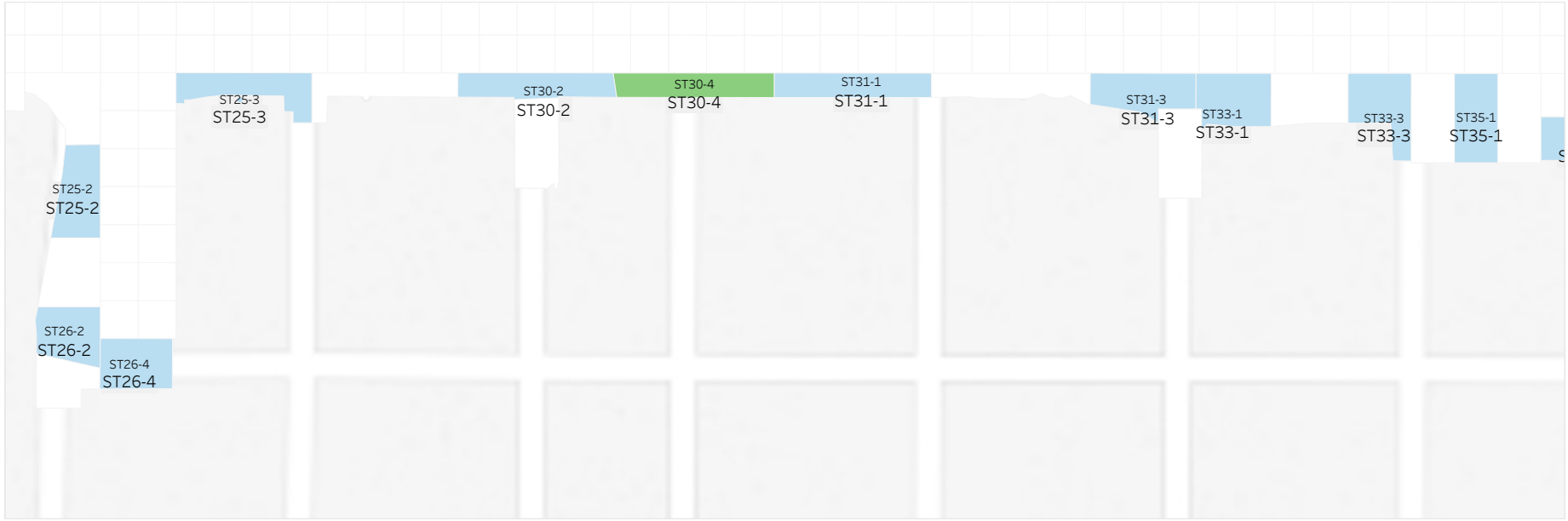


Figure 5R

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5S

Results: 2′ Intervals: 12″ - 3′

● = Sample Taken | Unrestricted Reuse | Restricted Reuse | Disposal | No Data | N/A

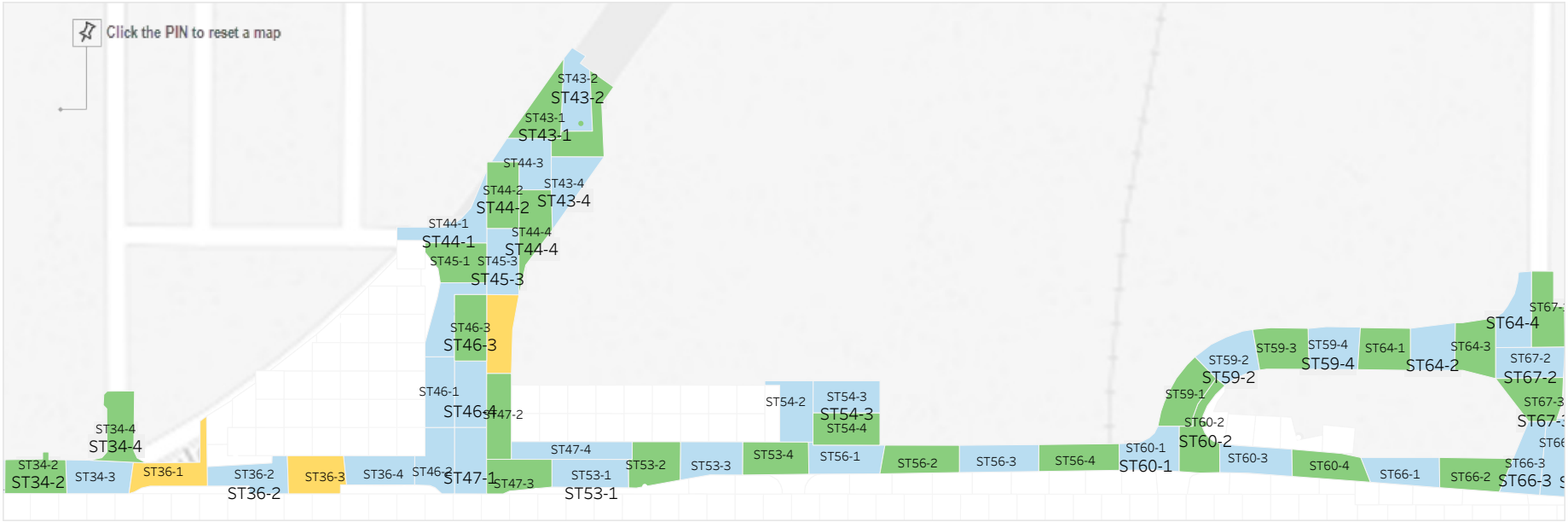


Figure 5T

Results: 2′ Intervals: 3′ - 5′

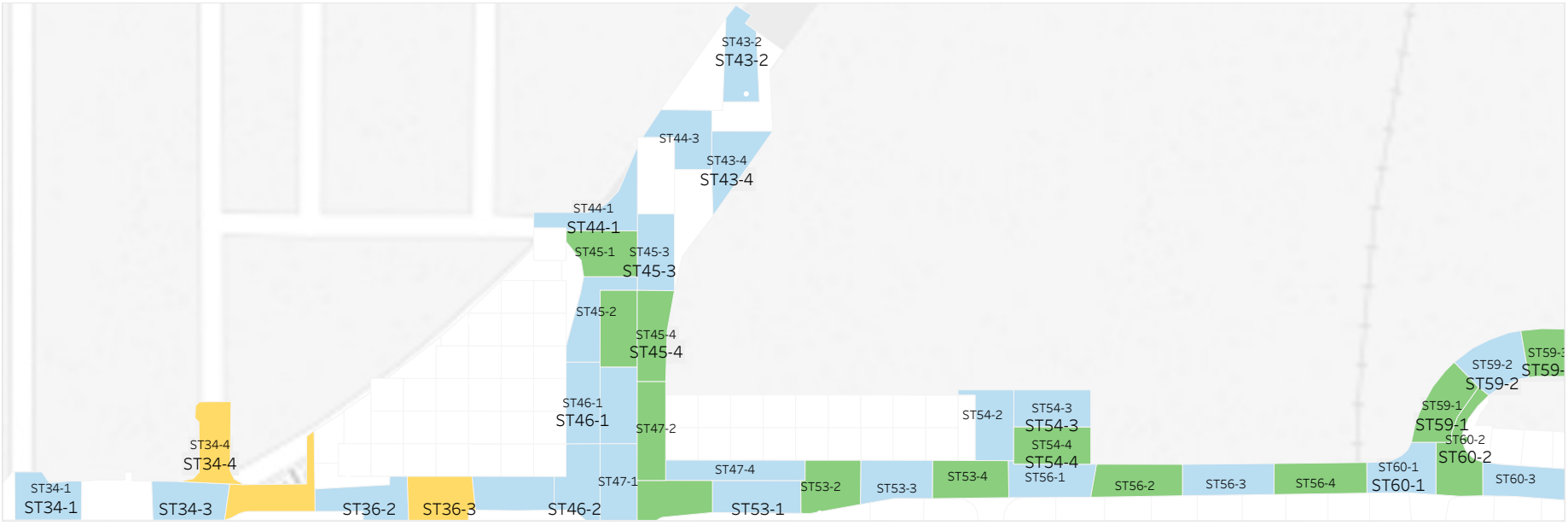
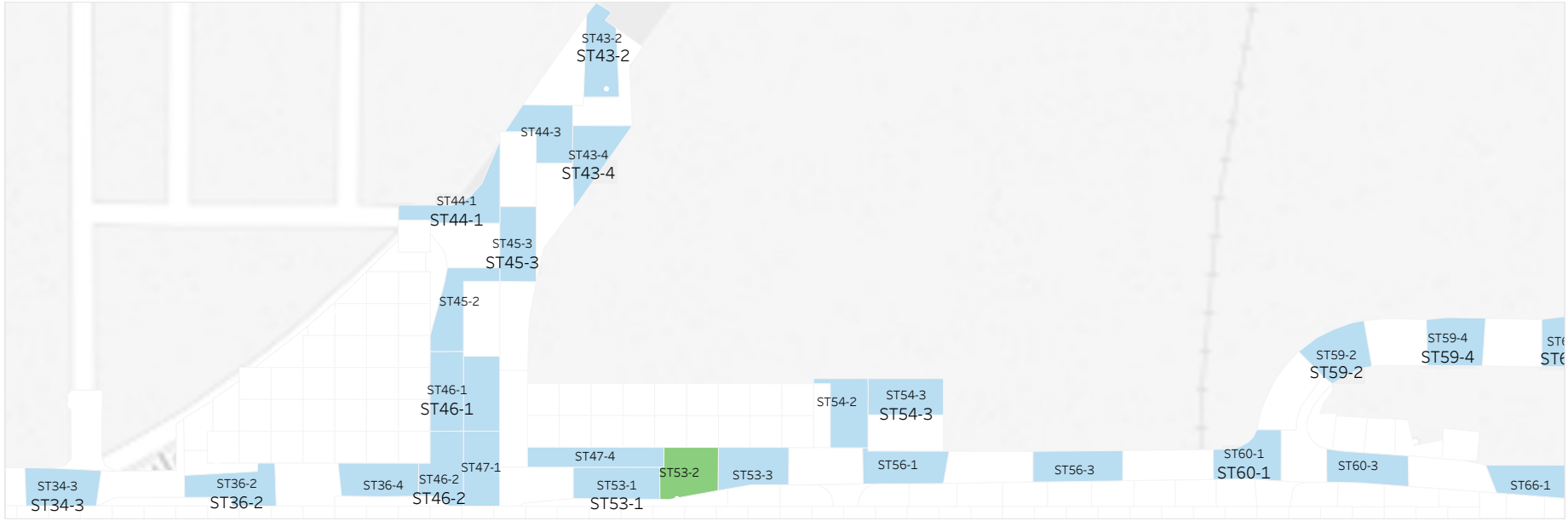


Figure 5U

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5V

Results: 2′ Intervals: 12″ - 3′

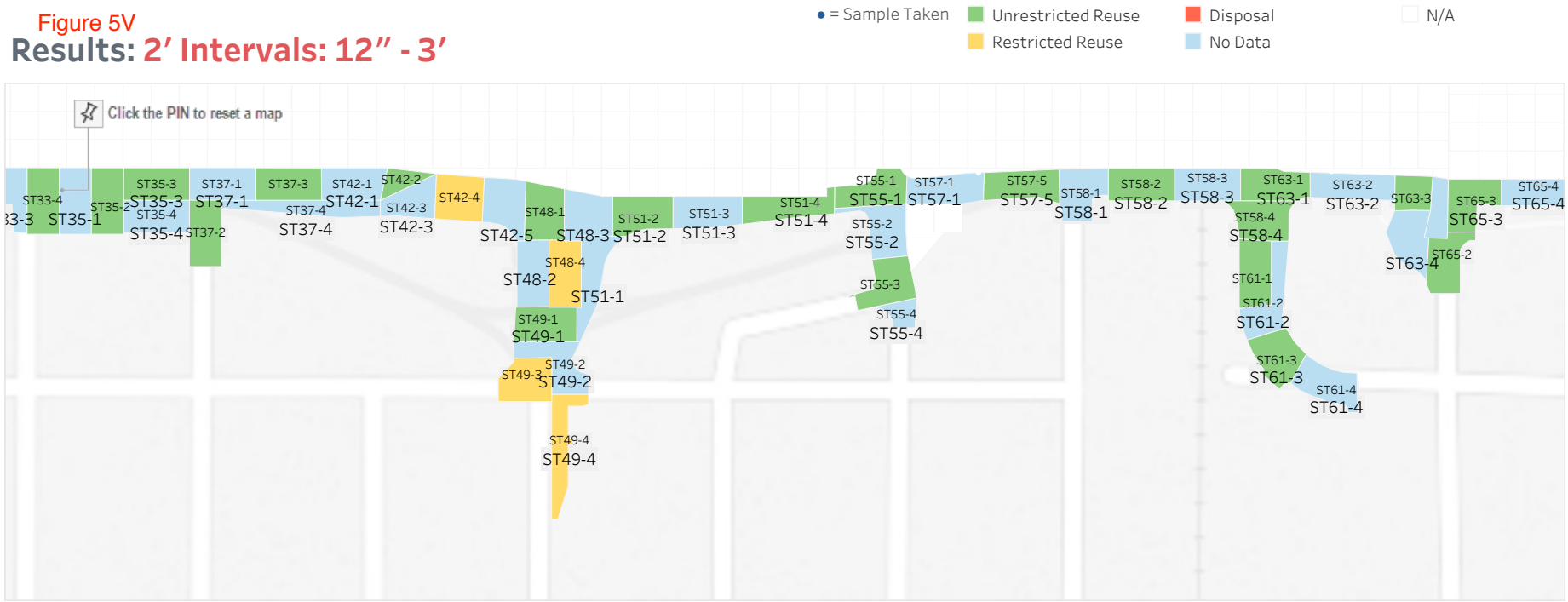


Figure 5W

Results: 2′ Intervals: 3′ - 5′

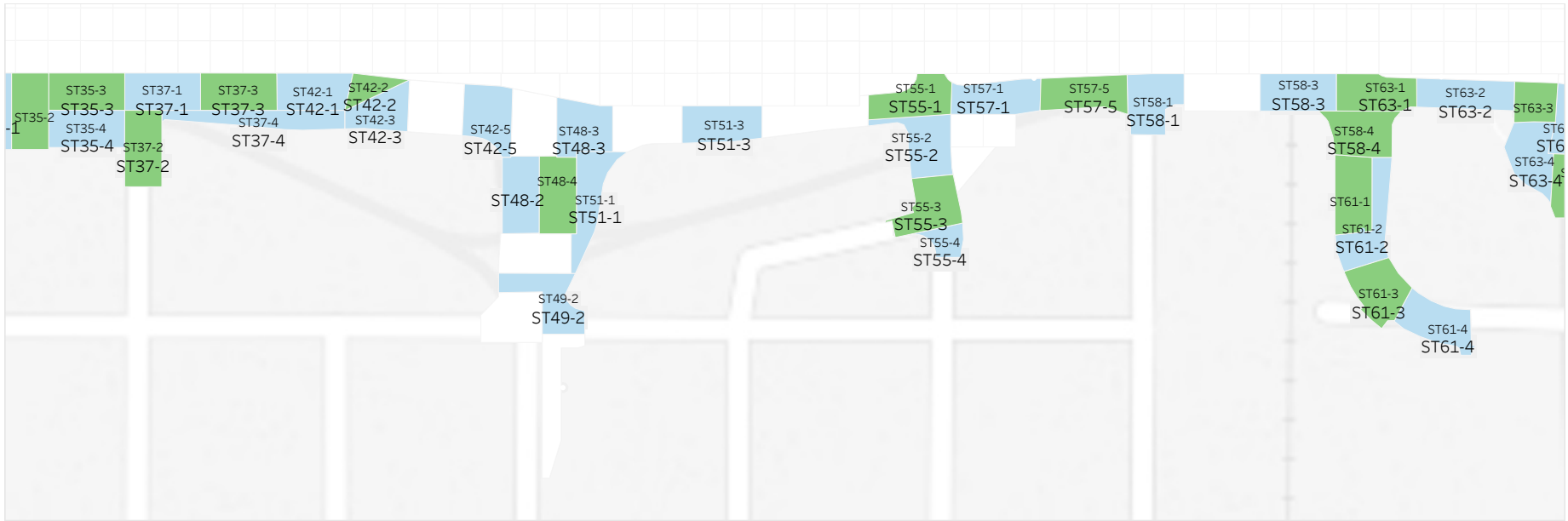
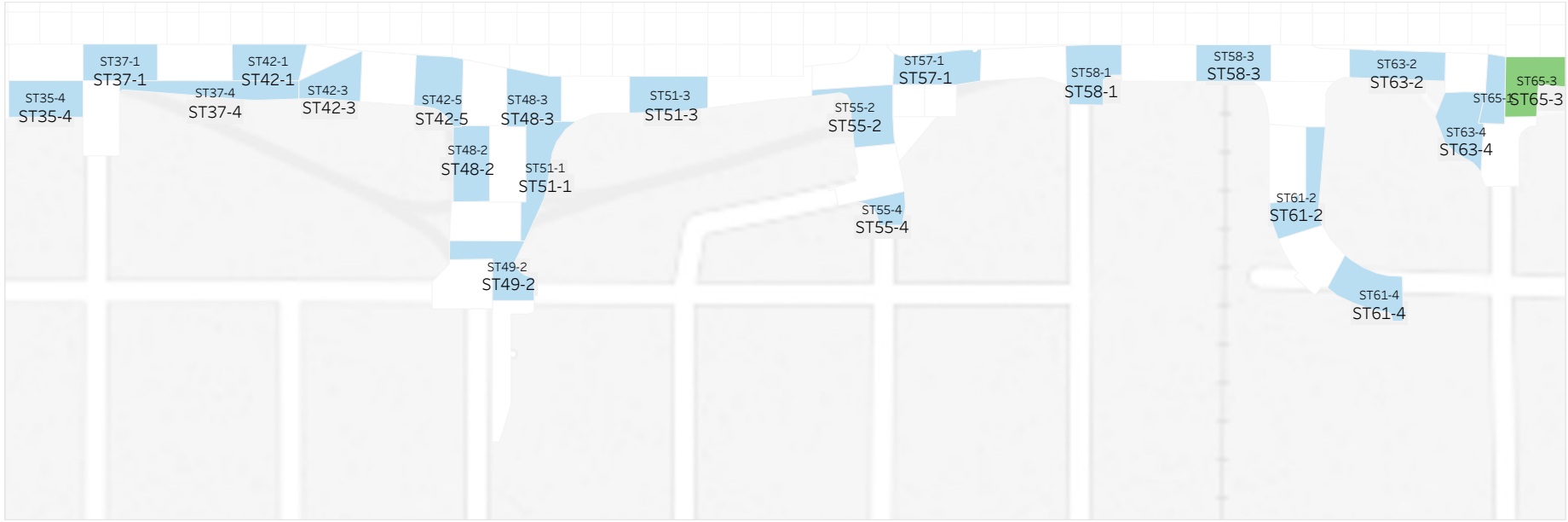


Figure 5X

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5Y

Results: 2′ Intervals: 12″ - 3′

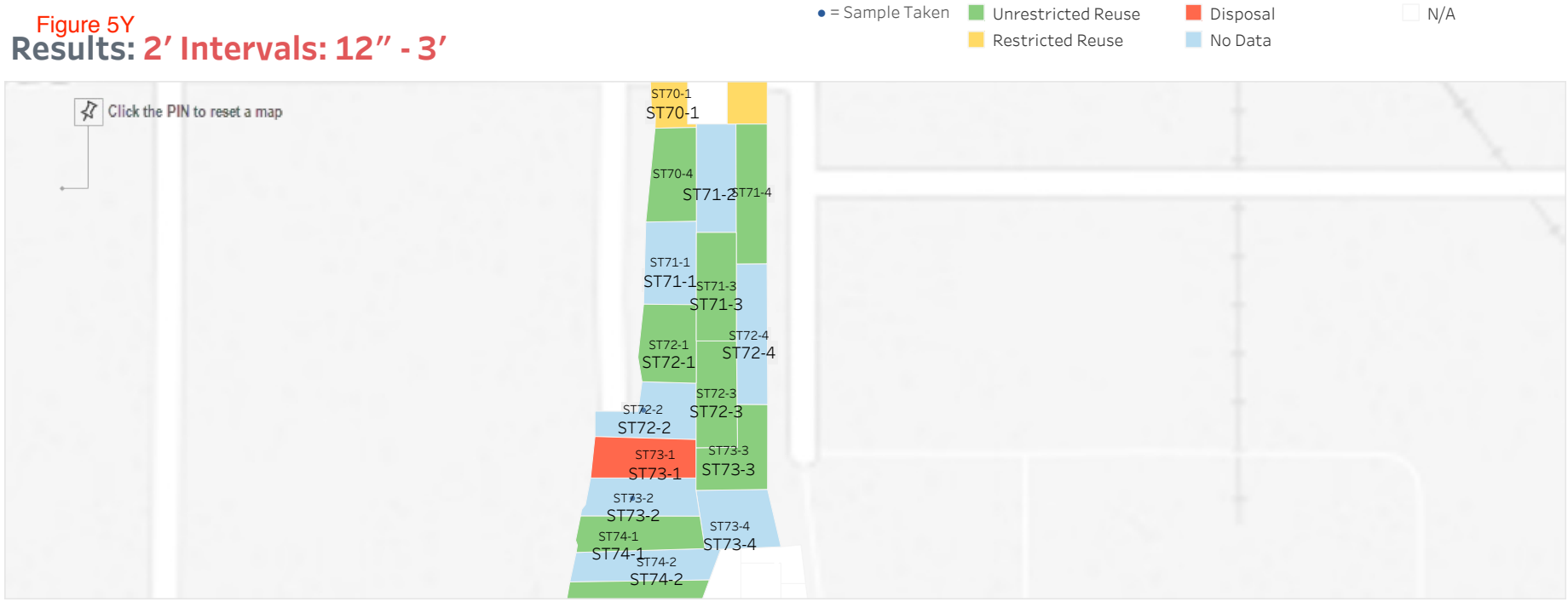


Figure 5Z

Results: 2′ Intervals: 3′ - 5′

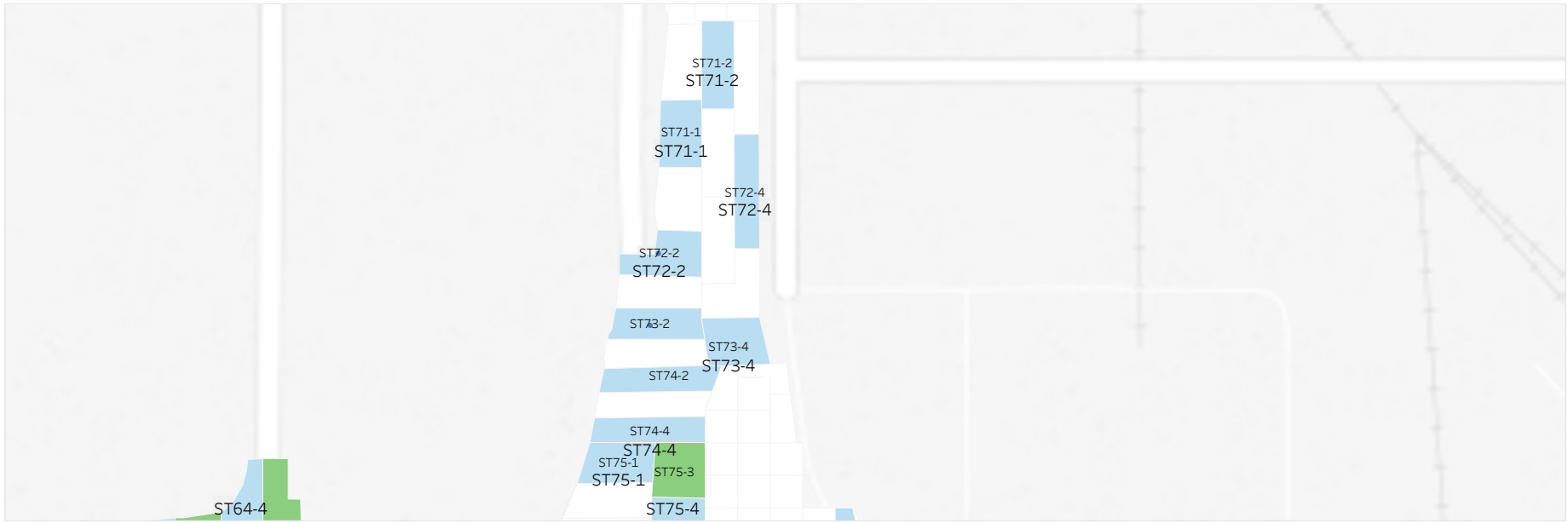
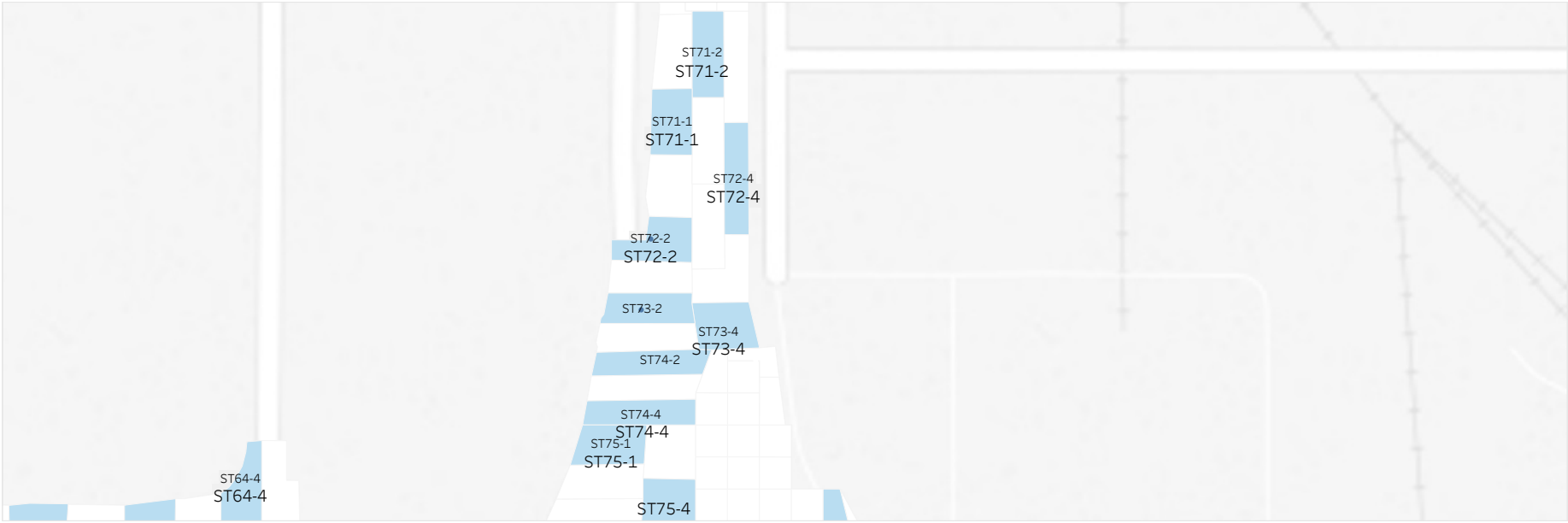


Figure 5AA

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5AB

Results: 2′ Intervals: 12″ - 3′

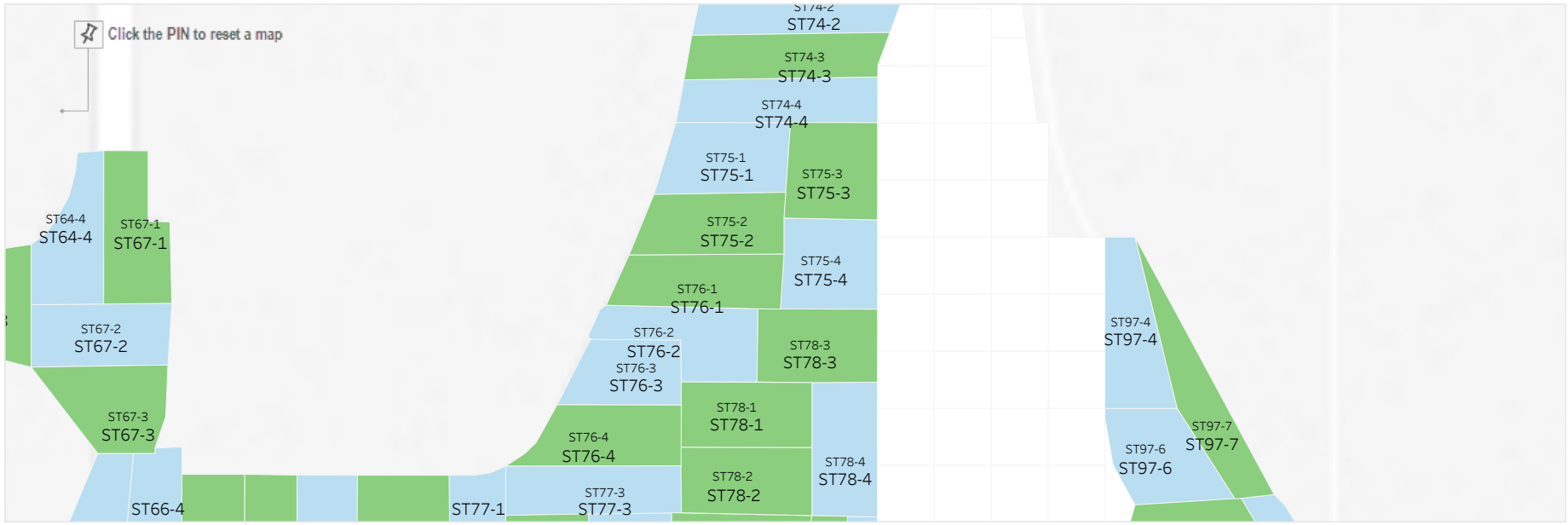


Figure 5AC

Results: 2′ Intervals: 3′ - 5′

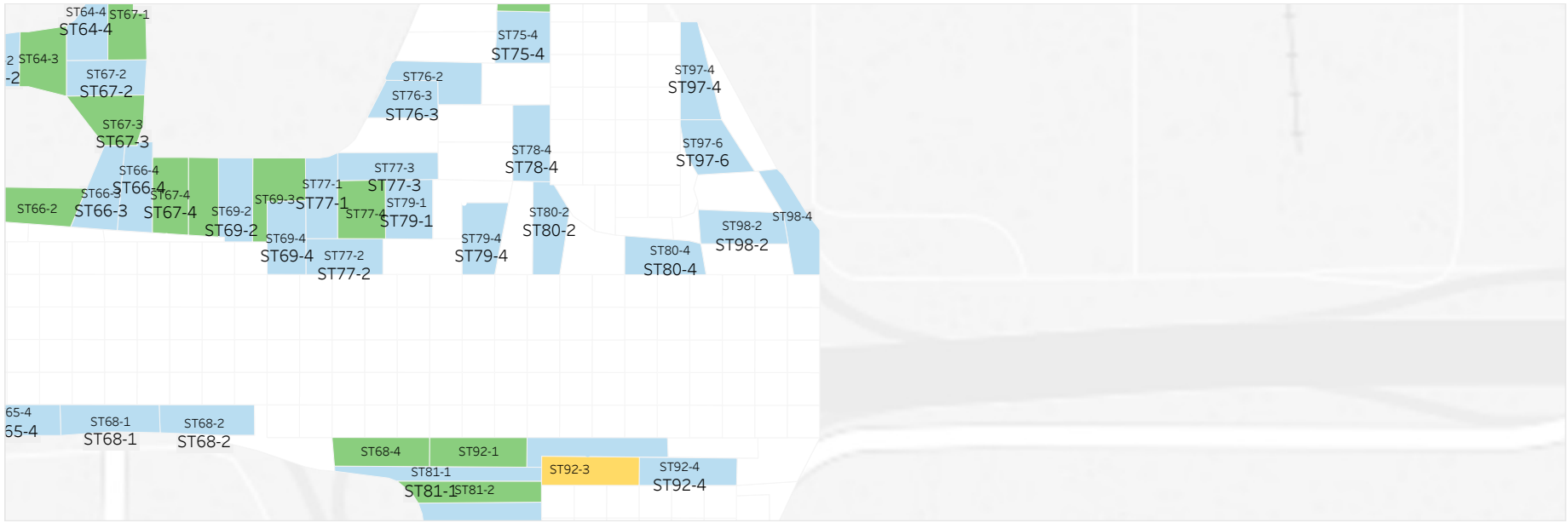
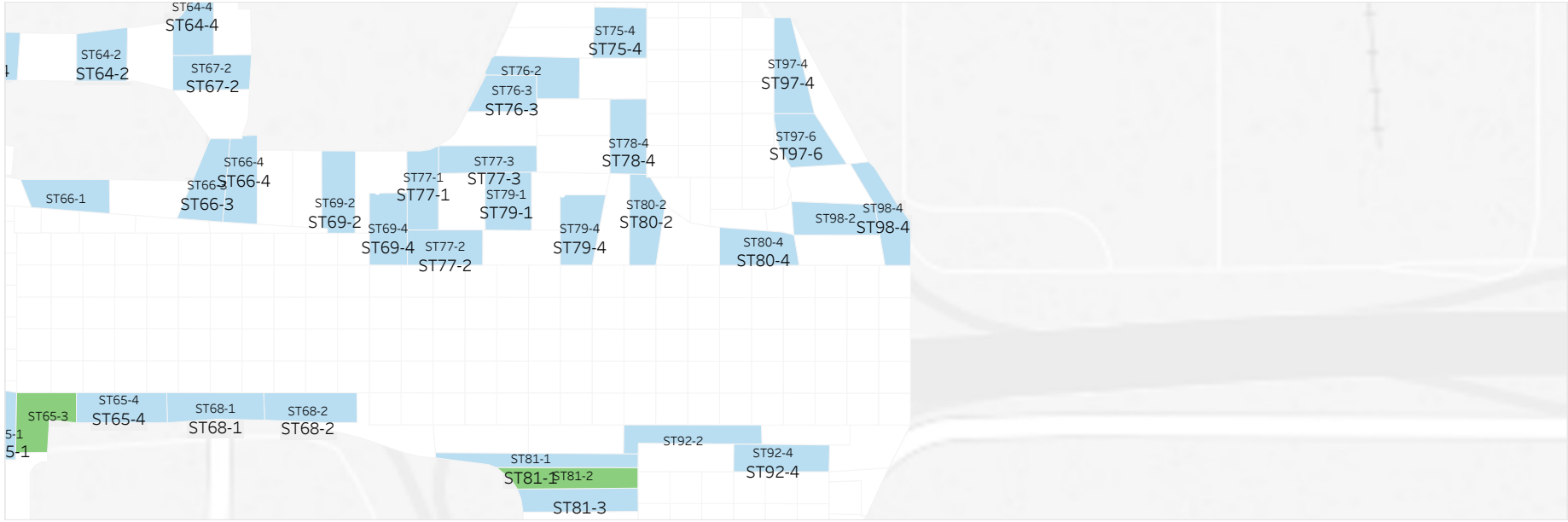


Figure 5AD

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5AE

Results: 2′ Intervals: 12″ - 3′

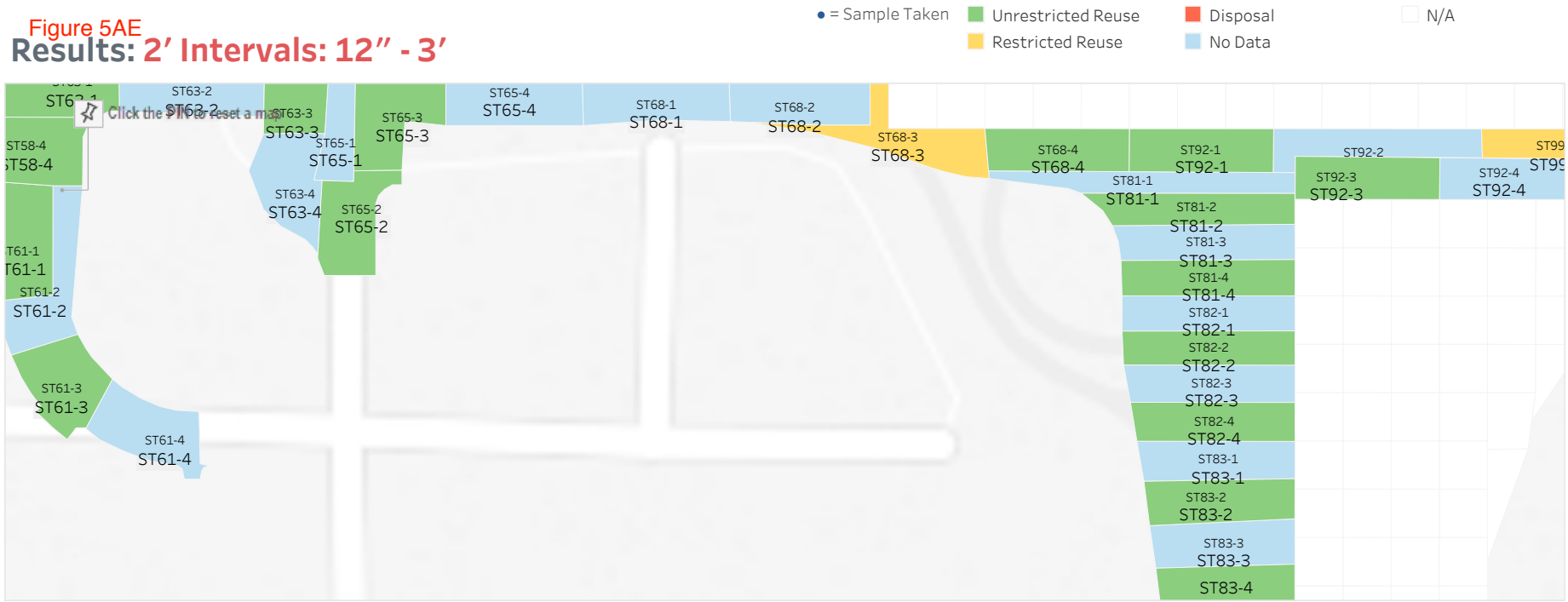


Figure 5AF

Results: 2′ Intervals: 3′ - 5′

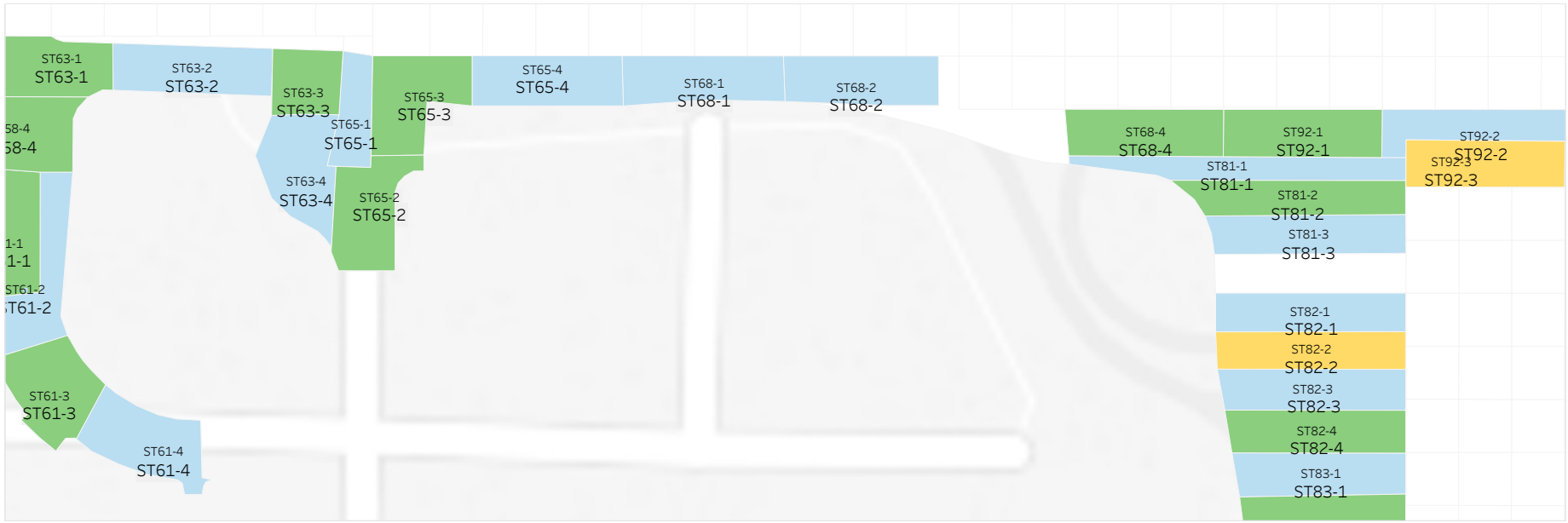
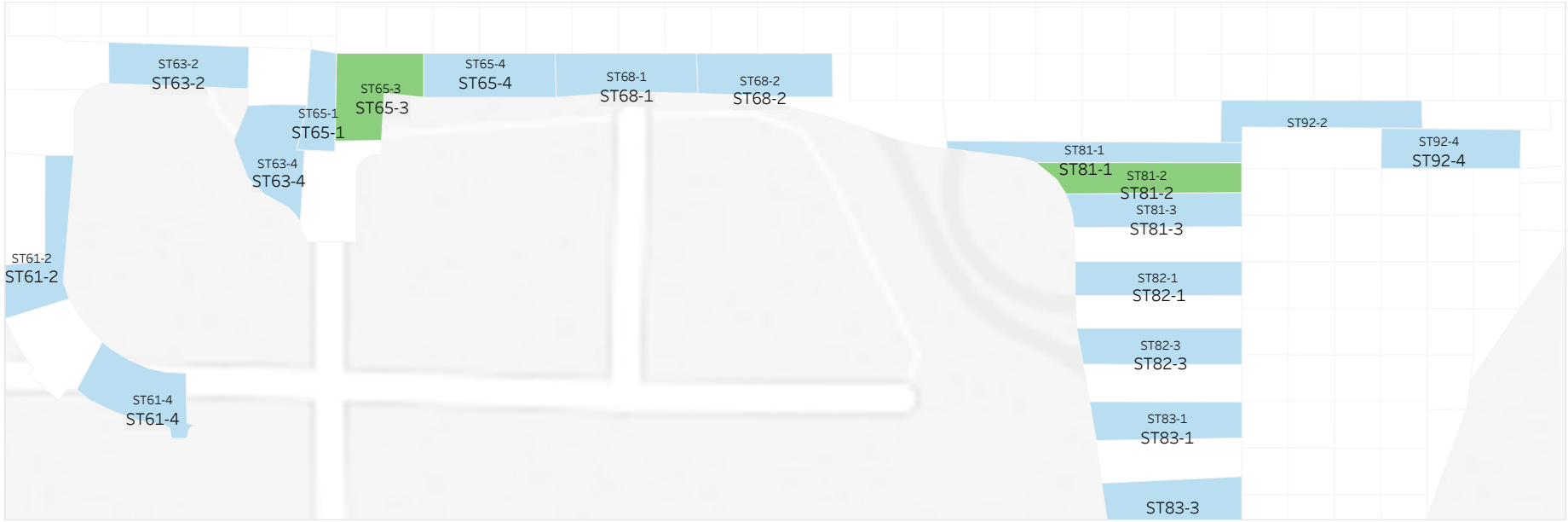


Figure 5AG

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5AH

Results: 2′ Intervals: 12″ - 3′

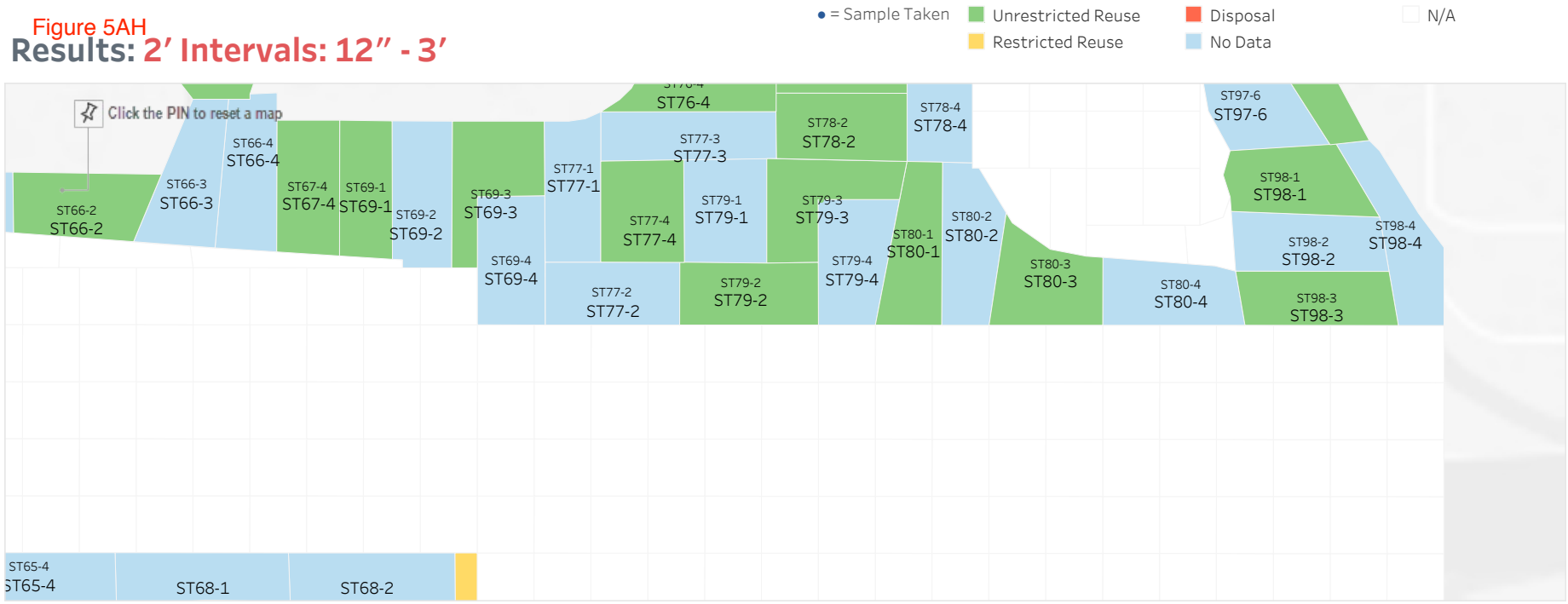


Figure 5AI

Results: 2′ Intervals: 3′ - 5′

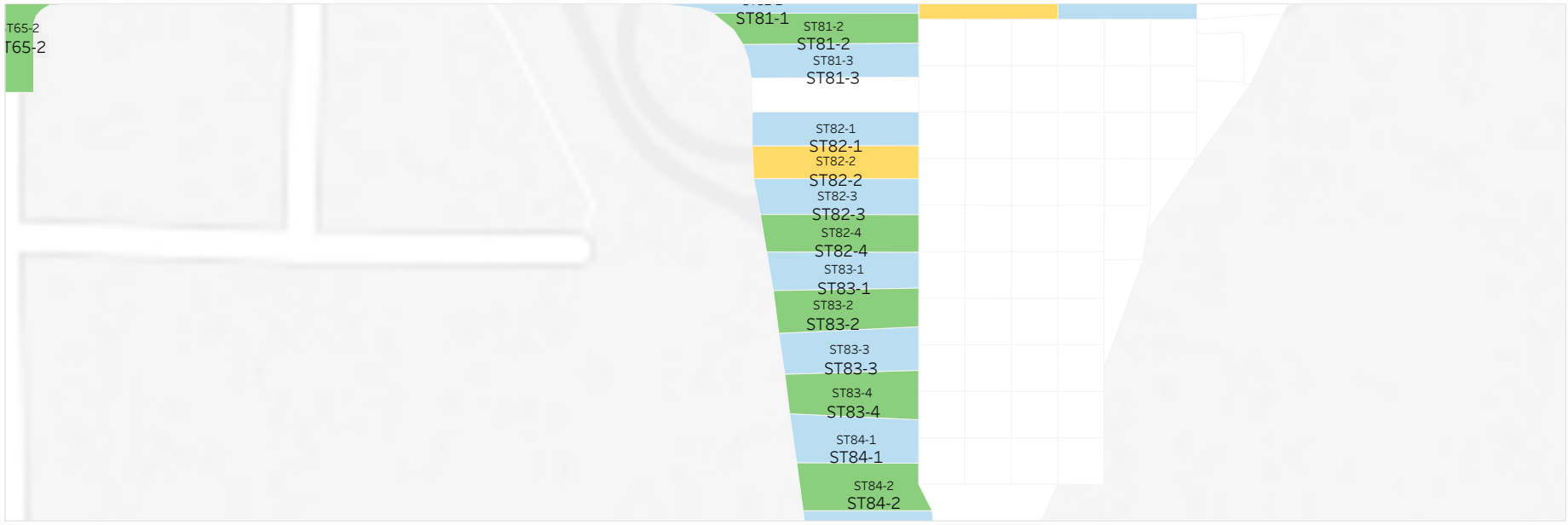
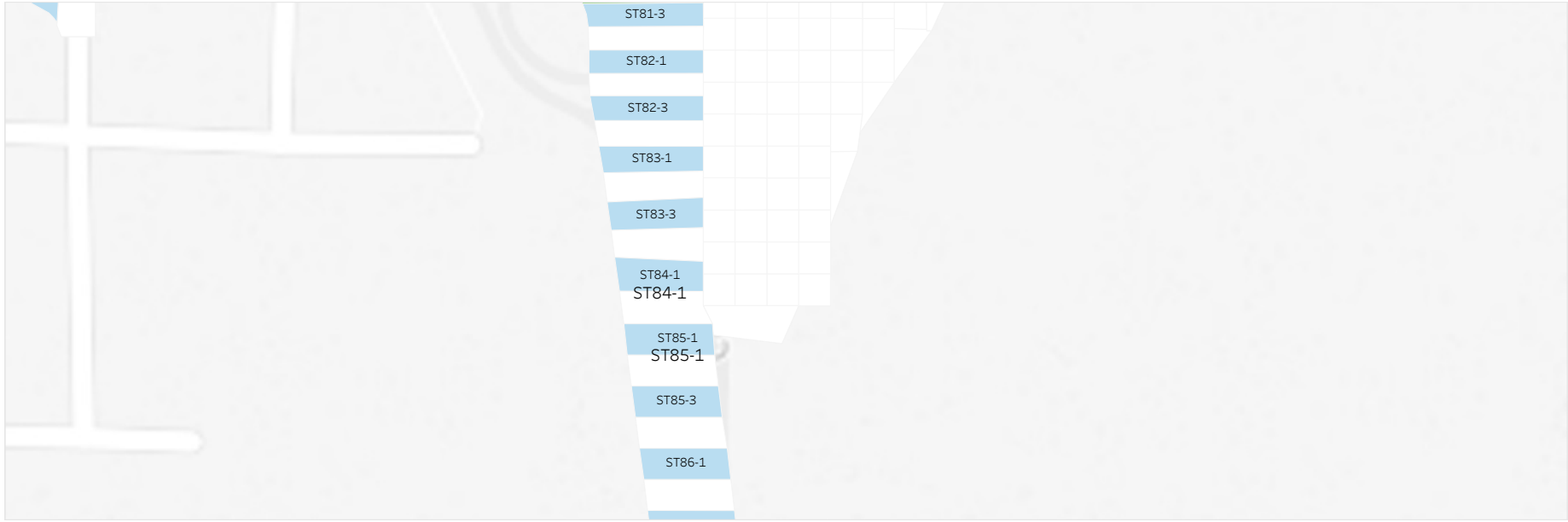


Figure 5AJ

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5AK

Results: 2′ Intervals: 12″ - 3′

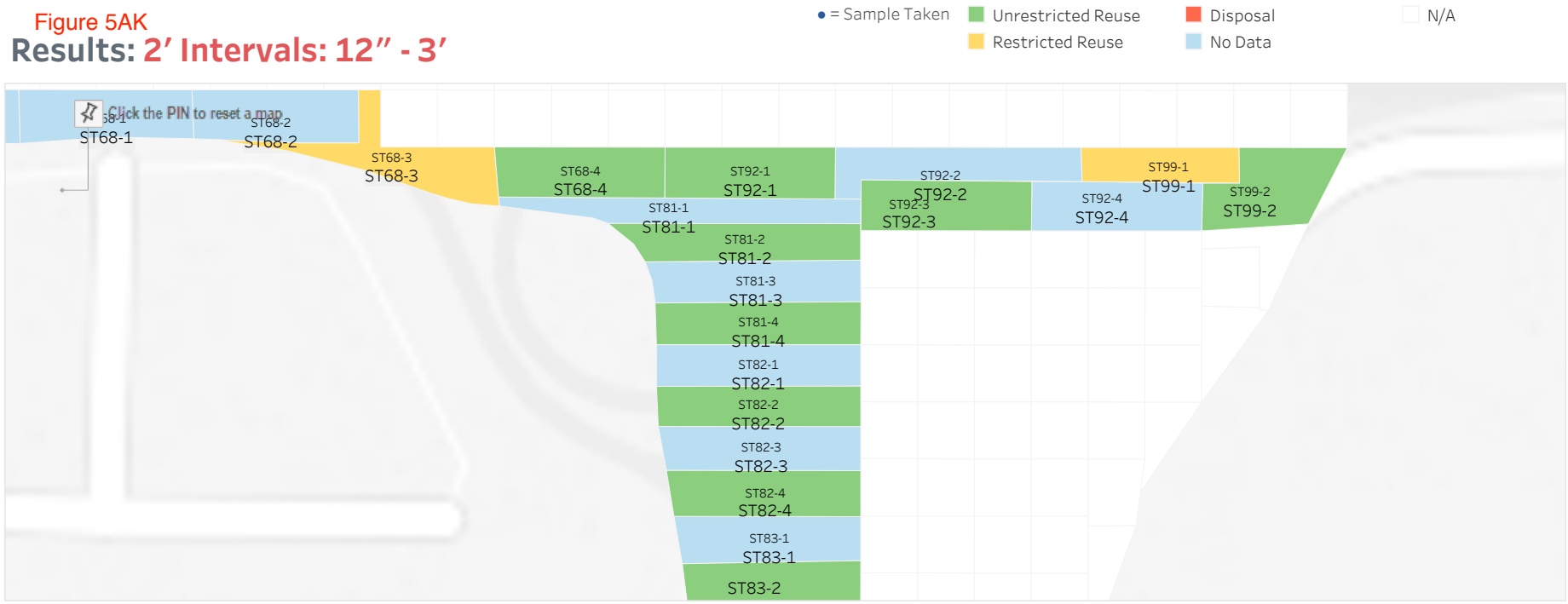


Figure 5AL

Results: 2′ Intervals: 3′ - 5′

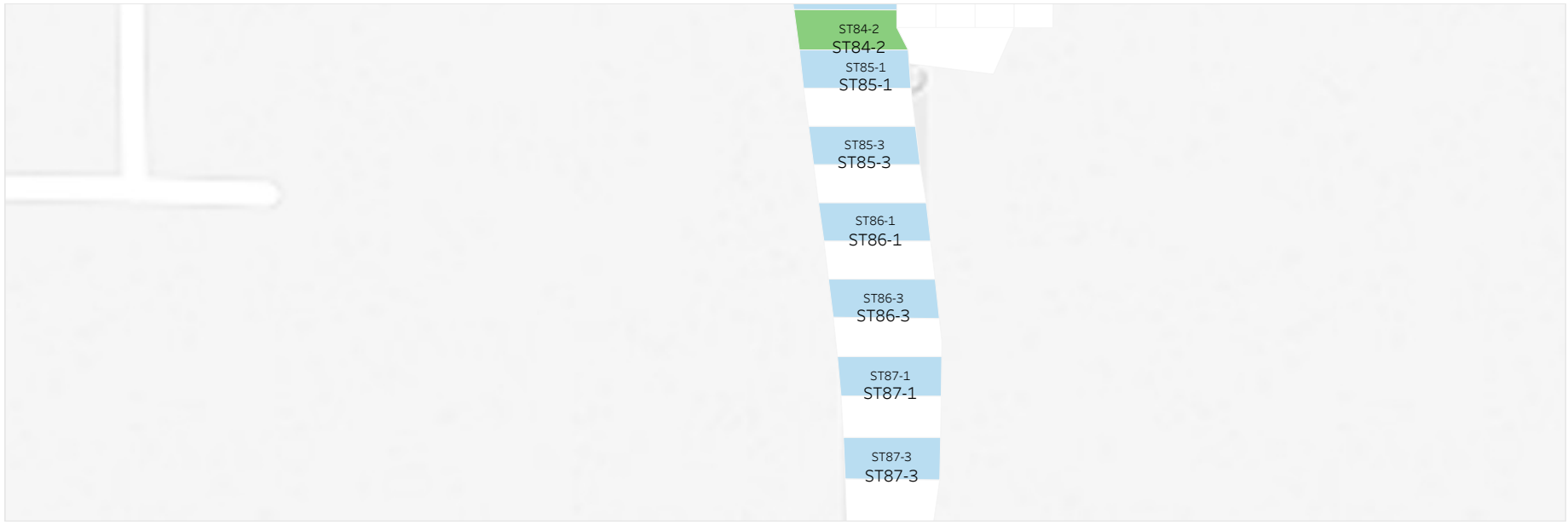
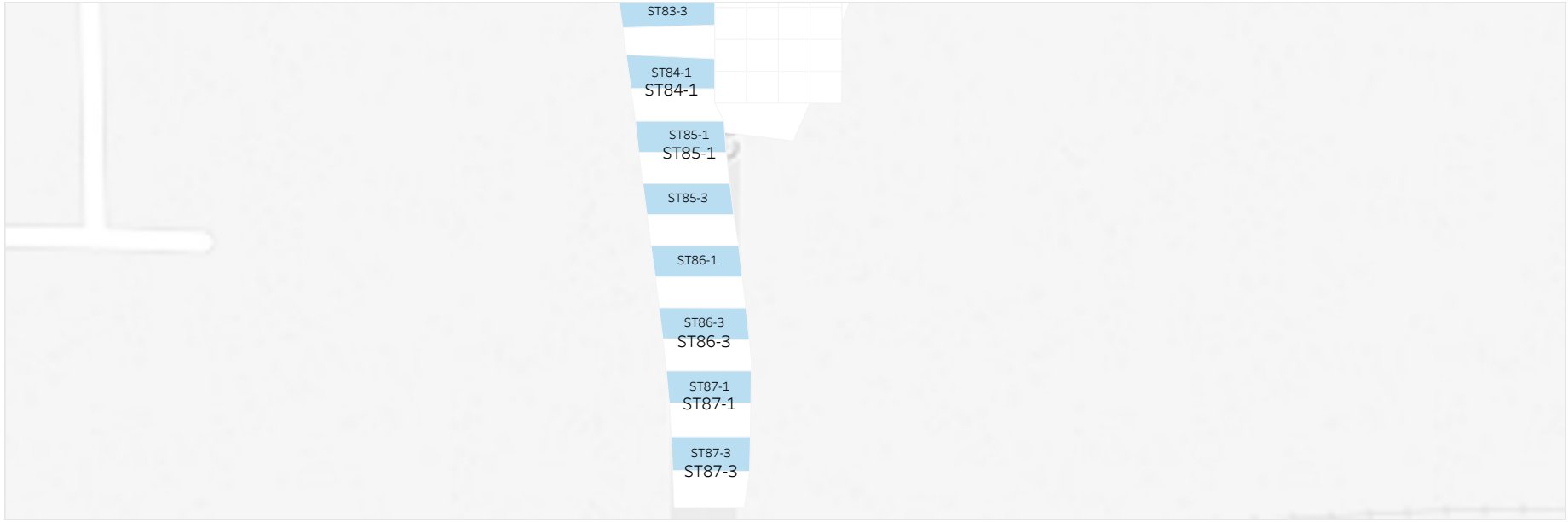


Figure 5AM

Results: 2′ Intervals: 5′ - 7′



Kiewit meridiam

Central 70

West Segment Environmental Samples: 2-ft Interval Depths

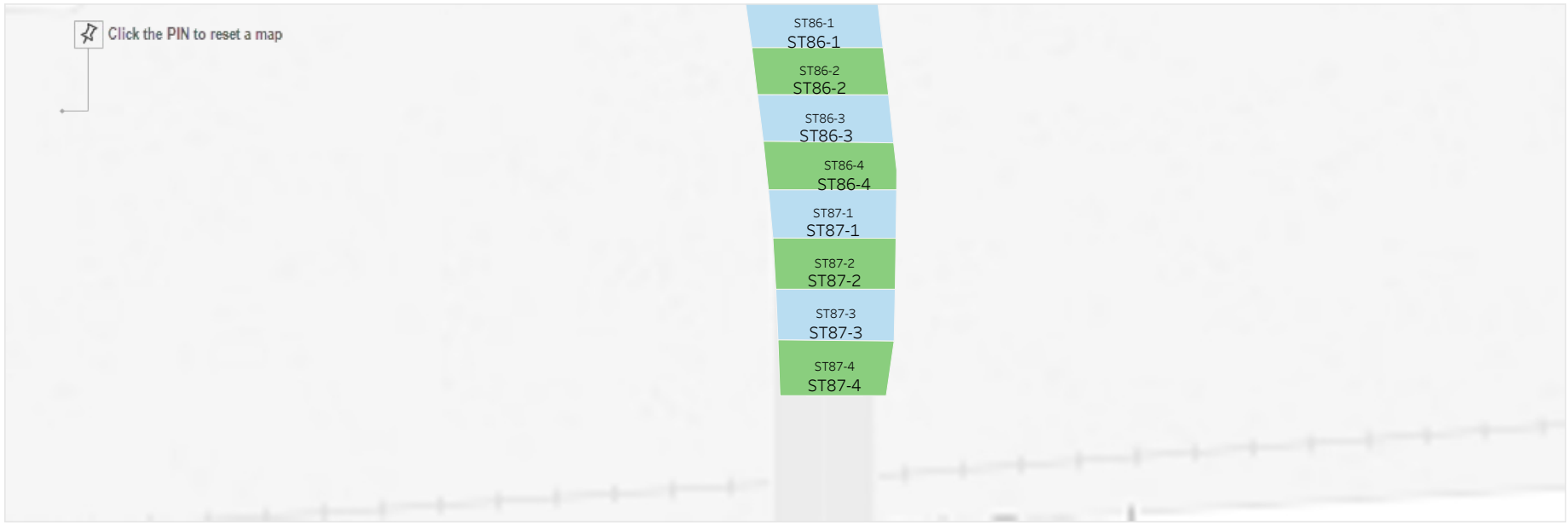
Show Block #s

NOTE: Only the West Segment has sub-levels

Updated: Oct 05, 4:51AM CT

Figure 5AN

Results: 2′ Intervals: 12″ - 3′



Results: 2′ Intervals: 3′ - 5′

Central/East Segments Environmental Samples

Updated: Oct 05, 4:51AM CT

Figure 6A

Results: Central, Colorado - Quebec

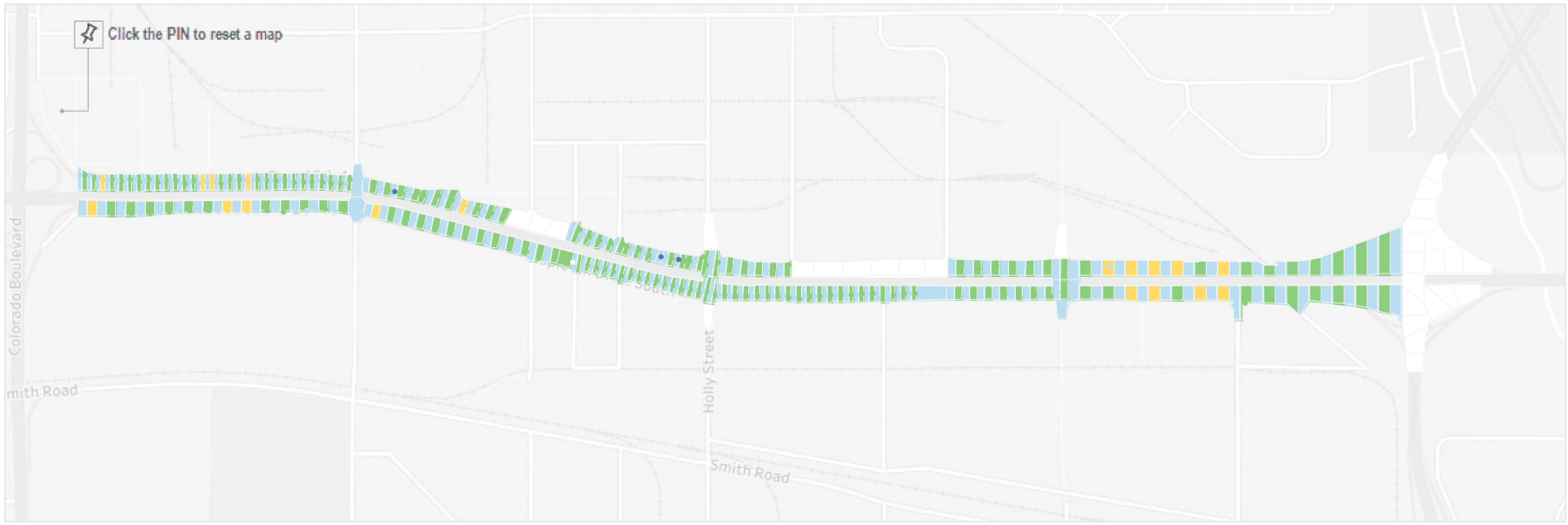


Figure 6B

Results: East, Quebec - Havana

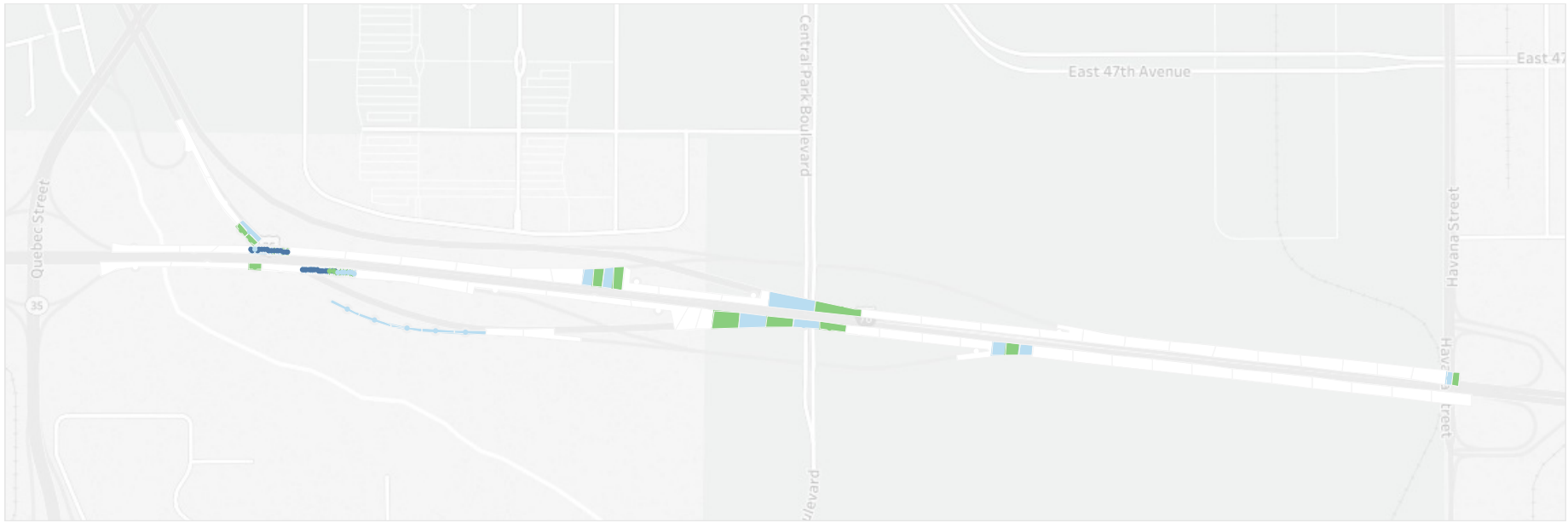
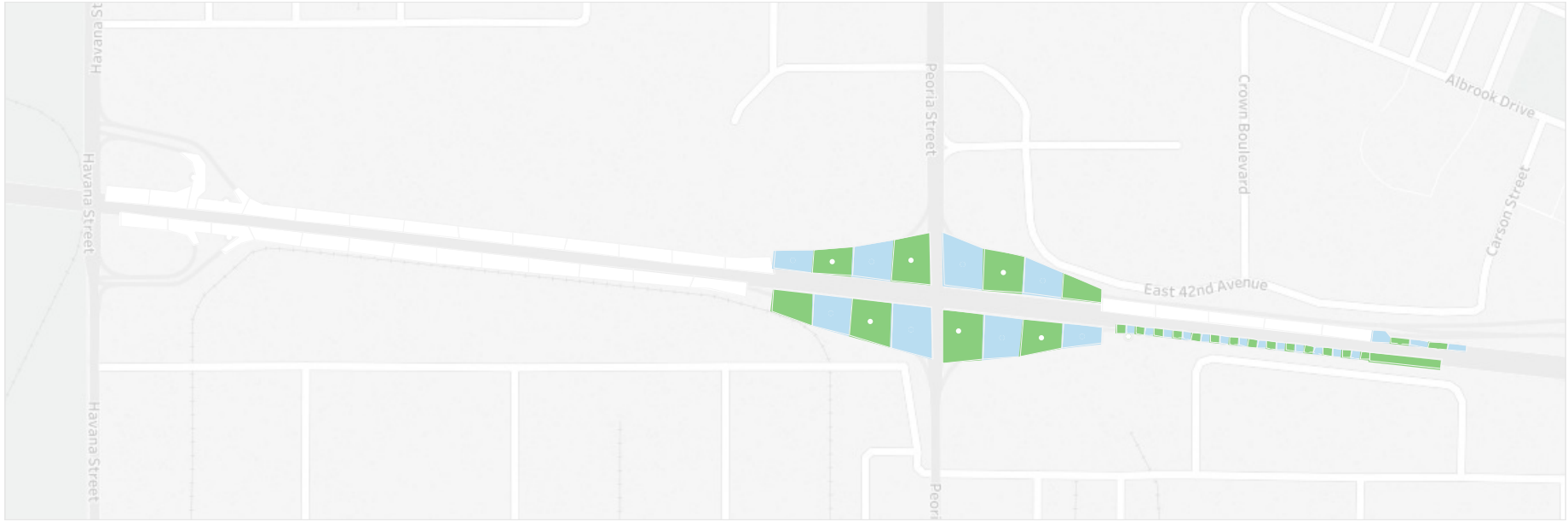


Figure 6C

Results: East, Havana - I-225



Central/East Segments Environmental Samples

Updated: Oct 05, 4:51AM CT

Figure 6D

Results: Central, Colorado - Quebec

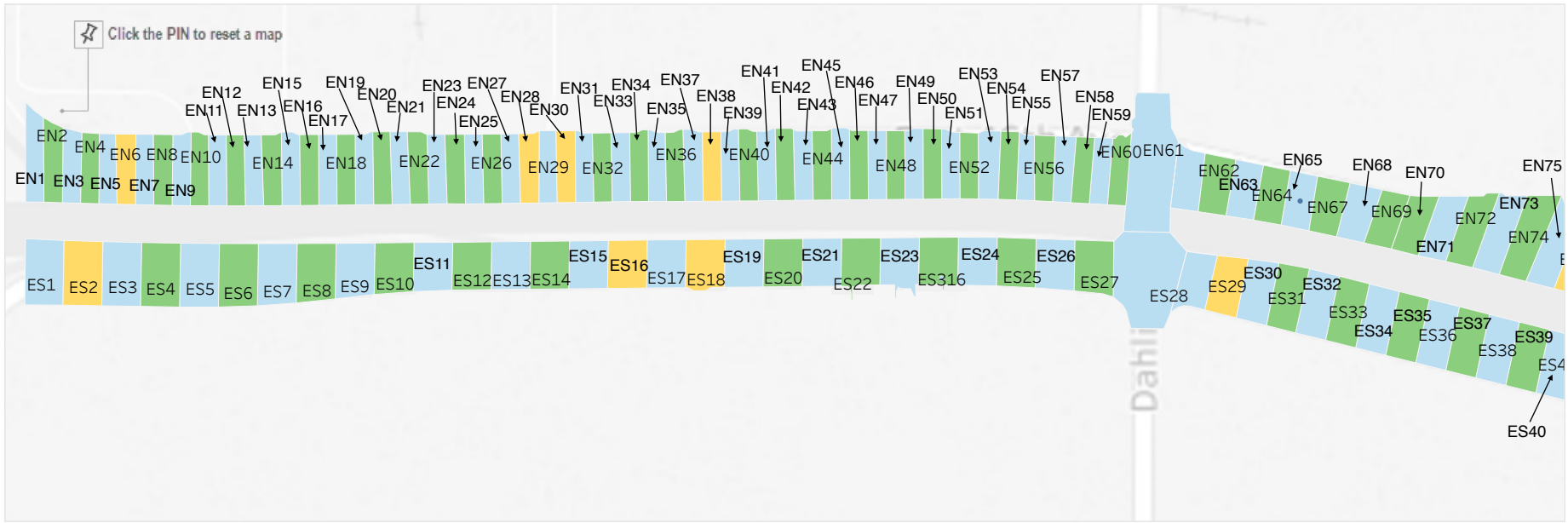


Figure 6E

Results: East, Quebec - Havana



Figure 6F

Results: East, Havana - I-225



Central/East Segments Environmental Samples

Updated: Oct 05, 4:51AM CT

Figure 6G

Results: Central, Colorado - Quebec

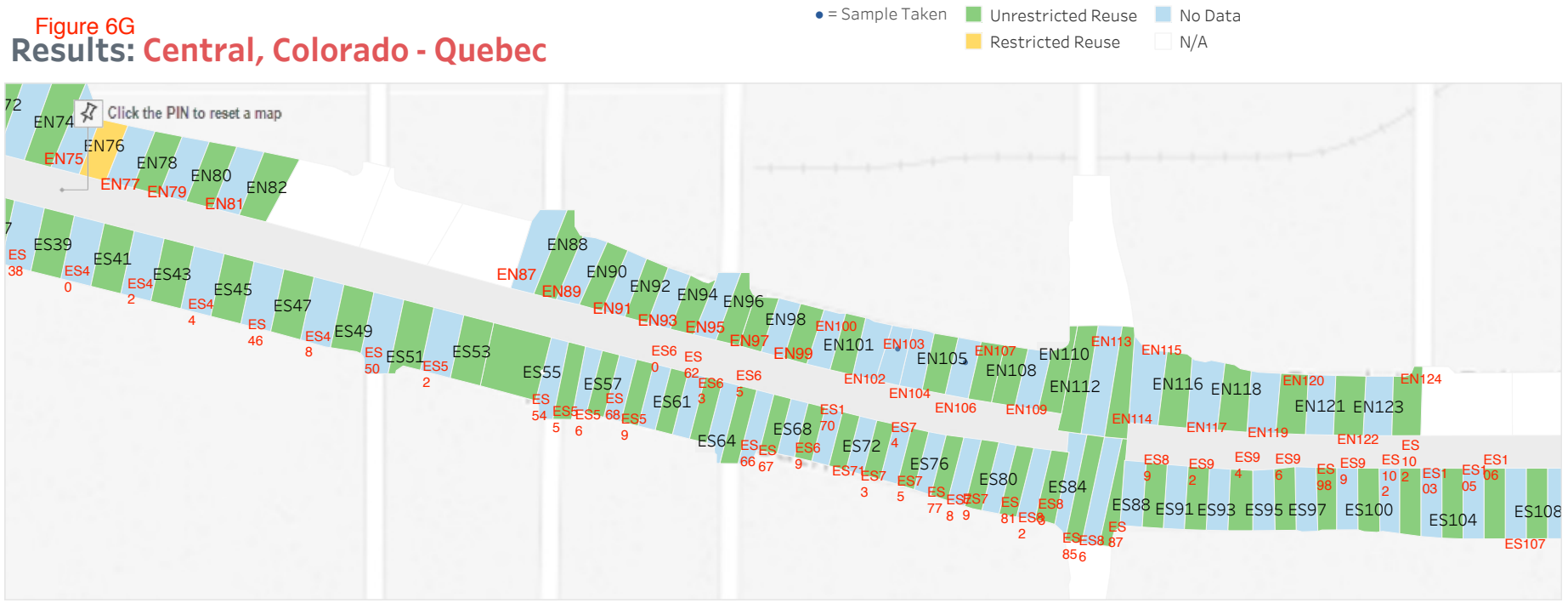


Figure 6H

Results: East, Quebec - Havana

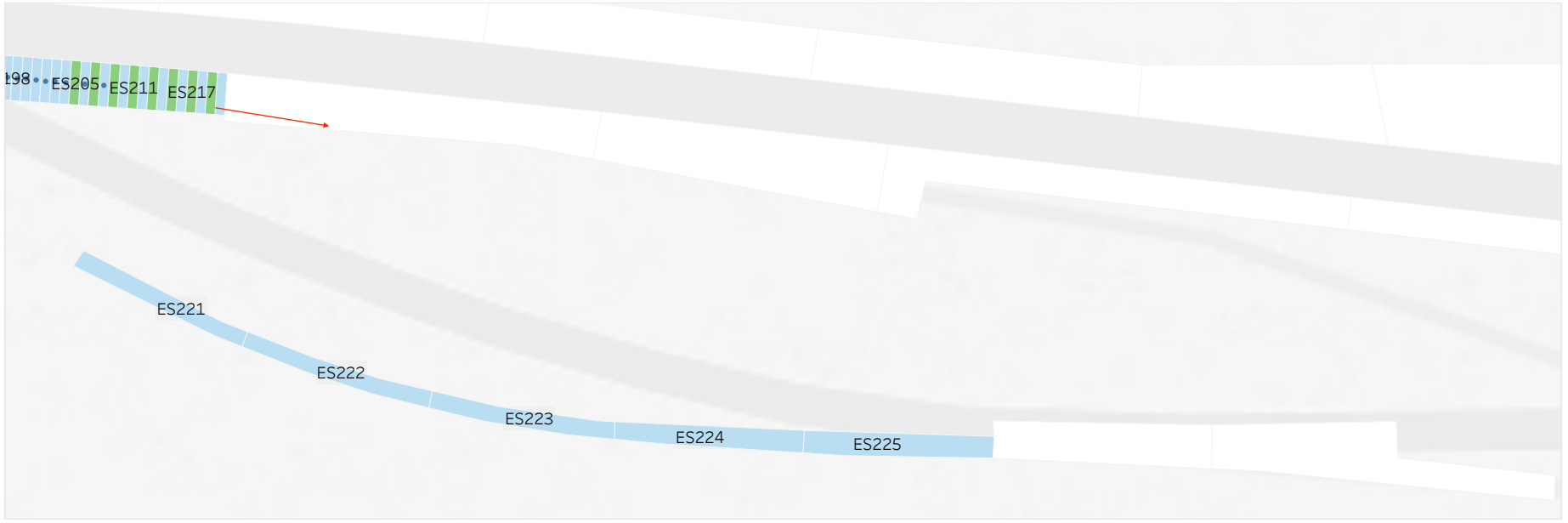
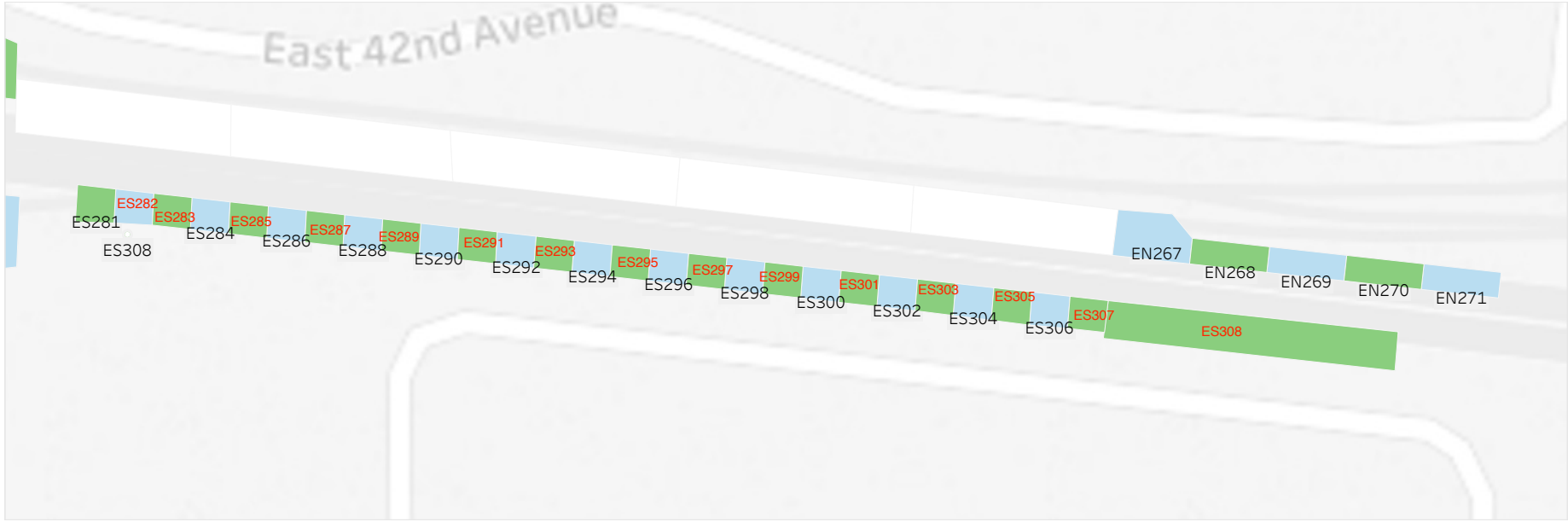


Figure 6I

Results: East, Havana - I-225



Central/East Segments Environmental Samples

Updated: Oct 05, 4:51AM CT

Figure 6J

Results: Central, Colorado - Quebec

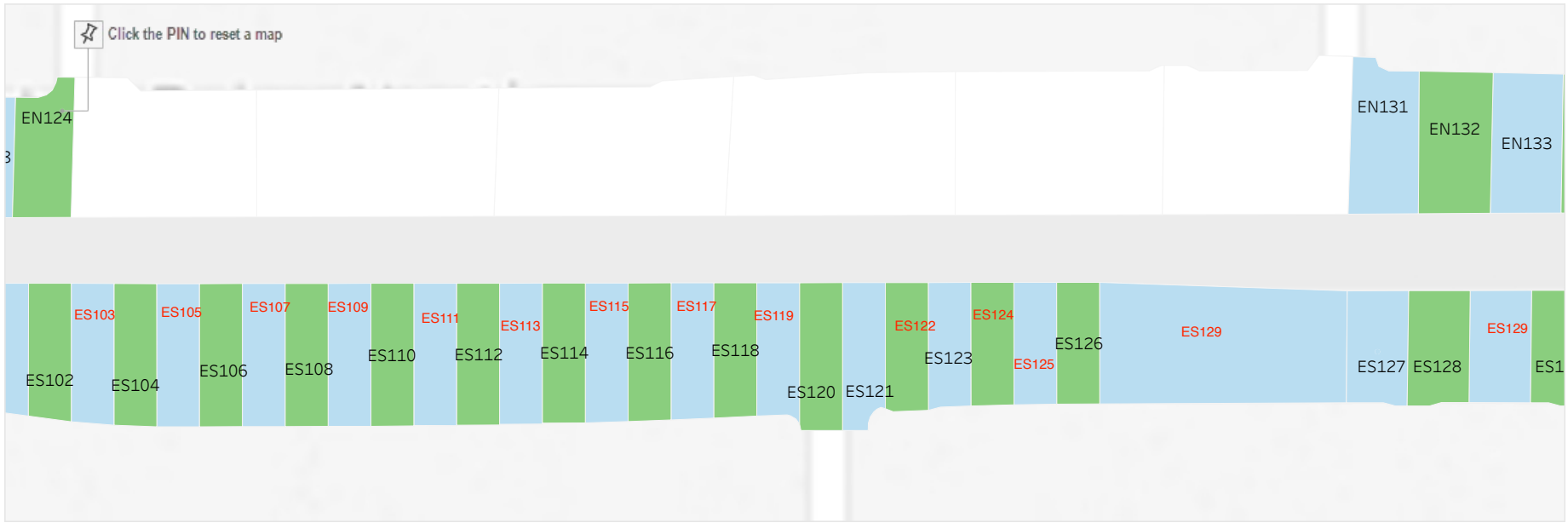
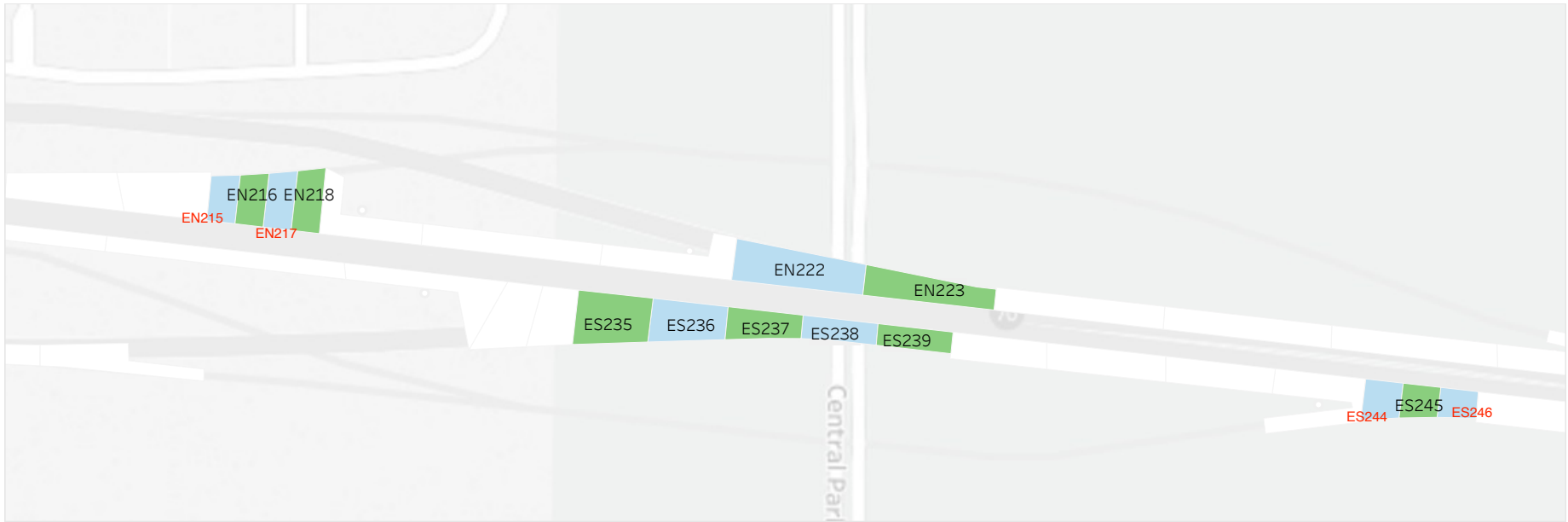


Figure 6K

Results: East, Quebec - Havana



Central/East Segments Environmental Samples

Updated: Oct 05, 4:51AM CT

Figure 6L

Results: Central, Colorado - Quebec

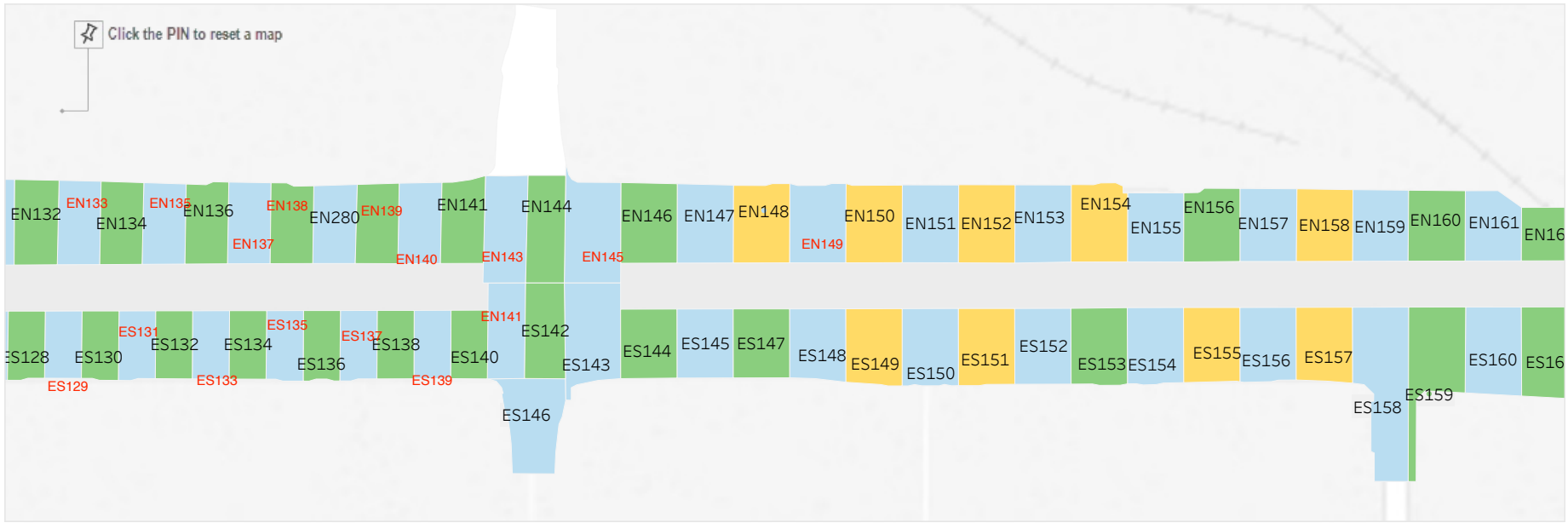


Figure 6M

Results: East, Quebec - Havana

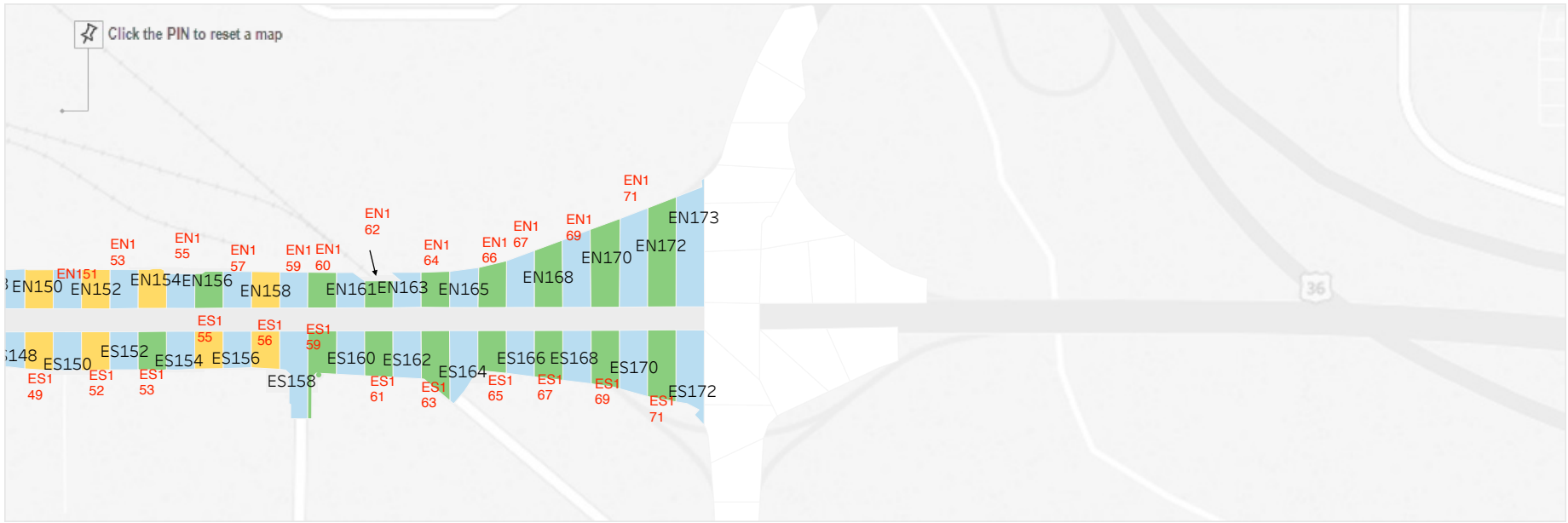


Central/East Segments Environmental Samples

Updated: Oct 05, 4:51AM CT

Figure 6N

Results: Central, Colorado - Quebec



APPENDIX A

Monitoring Technician Logs - Soil Characterization

All MT logs are bookmarked by date for easy viewing. Bookmarks are also identified below:

20180423_SoilCharacterization - page 2
20180424_SoilCharacterization - page 5
20180425_SoilCharacterization - page 8
20180430_SoilCharacterization - page 11

Kiewit meridiam PARTNERS

DAILY RECOGNIZED HAZARDOUS MATERIALS ACTIVITY REPORT

1. General Information		
1.1	Date	6/23/10
1.2	Time	0810
1.3	Weather	sunny 40-60
1.4	Description of Work Activites	direct push ST-1,2+3
1.5	BMPs in place/used	silt fence
1.6	Photos - Please attach photos that illustrate work being performed	
2. RHM Origination		
2.1	Property Description (area where RHM was generated)	SW Brighton & I-70
2.2	Excavation Location(s)	~~ST-1~~ 40 ST-1: ST-1-5, ST-1-3, ST-1-8, ST-2-2, ST-2-7, ST-3-1, ST-3-5, ST-2-1, ST-2-4, ST-2-9, ST-3-3, ST-3-9, ST-3-6, ST-3-7 ST-3-7 Dup.
2.3	GPS or Survey Location of RHM Origination - Please attach the marked up plan sheet	39.779415, -104.9C8832
2.4	Identification of Vertical Horizon – Circle one	(Asphalt and Conrete Surfacing) Road Base; (Near Surface Soil) (Shallow Unsaturated Soil); Unsaturated Soil Saturated Soil
3. Field Screening/Monitoring		
3.1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration? YES/(NO) If yes, please explain further.	
3.2	Is there an indication of non-soil materials (e.g. debris, sludge, powders, coal-based fill) present in the disturbed material? YES/NO If yes, please explain further.	red brick, coal-based fill, metal, burnt wood

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3.3	Is there a presence of a distinguishable odor with the disturbed material? YES/(NO) If yes, please explain further.
3.4	Are there discreet layers in the soil cross section that generally appear out of place? YES/(NO) If yes, please explain further.
3.5	Did the distrubed soil fail to pass any other "looks bad, smells bad" parameters? YES/(NO) If yes, please explain further.
3.6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material? (YES)/NO If yes, please include the analytes and results below, or attach the results. 2.0-3.0 : 3 ST-1-7 1.4-3.6 : 5 ST-1-5 0.0-0.2 : ST-2 -1.5
3.7	Additional screening comments/observations

4. Analytical

4.1	If analytical samples were taken, please fill out the information below for each sample location.	
	Sample ID	CSB-ST1-1(4-5)042718
	Location	
	Date/Time	4/27/18 0840
	Analysis	VOCs, PAHs, RCRA 8 metals
	Media	Soil
	Laboratory sent to	SGS
	Sample ID	CSD-ST1-1(5-10)042718, CSD-ST1-3(5-10):0845
	Location	
	Date/Time	1' 0920
	Analysis	"
	Media	"
	Laboratory sent to	"

add'l samples see COC

4/23/18

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4.2	Additional comments
4.3	Is additional sampling required prior to disposal? YES/NO If yes, please include additional information on what sampling is required, and attach results when sampling is completed.
5. Disposition Information	
5.1	Where was the soil disposed of? ONSITE/~~OFFSITE~~ Complete the appropriate questions based on disposal location.
	Description of offsite disposal location Vine Industries (temp)
	Quantity (CY) of excavated soil disposed, treated, reused onsite, or reused offsite 2 x 5gal buckets soil
	If taken offsite to an approved disposal facility, provide the name of the facility taken to 55gal drum on Vine
	Description of onsite disposal location
	Description of cover layer material for onsite disposal
	GPS or Survey Location of RHM Disposition - Please attach the marked up plan sheet

Include any other important observations or information related to the work activity or RHM encountered.

Duplicate sample: ST-3-7 Dup is duplicate for 1'-5' identified as ST-3-70 @ 15:00

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PARTNERS

DAILY RECOGNIZED HAZARDOUS MATERIALS ACTIVITY REPORT

1. General Information		
1.1	Date	4/24/18
1.2	Time	0706
1.3	Weather	30's wet snow
1.4	Description of Work Activites	direct push
1.5	BMPs in place/used	liner cutter
1.6	Photos - Please attach photos that illustrate work being performed	
2. RHM Origination		
2.1	Property Description (area where RHM was generated)	SE of I-70 & Dahlia
2.2	Excavation Location(s)	ML-10-3, ML-10-4, ML-13-1, ML-10-8, ML-13-5, ML-13-4, ML-13-8, ML-10-6, ML-10-9, ST-13-1, ST-13-2, ST-13-4, ST-13-6, ST-13-8, ST-14-1, ST-14-3, ST-14-5, ST-14-9, ST-14-7
2.3	GPS or Survey Location of RHM Origination - Please attach the marked up plan sheet	39.780119, -104.966216
2.4	Identification of Vertical Horizon – Circle one	Asphalt and Conrete Surfacing; Road Base; (Near Surface Soil); Shallow Unsaturated Soil; Unsaturated Soil; Saturated Soil
3. Field Screening/Monitoring		
3.1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration? YES/NO If yes, please explain further.	
3.2	Is there an indication of non-soil materials (e.g. debris, sludge, powders, coal-based fill) present in the disturbed material? YES/NO If yes, please explain further.	red brick, concrete, slag (ML-10-6) wood

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3.3	Is there a presence of a distinguishable odor with the disturbed material? YES/NO If yes, please explain further.
3.4	Are there discreet layers in the soil cross section that generally appear out of place? YES/NO If yes, please explain further.
3.5	Did the distrubed soil fail to pass any other "looks bad, smells bad" parameters? YES/NO If yes, please explain further.
3.6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material? (YES)/NO If yes, please include the analytes and results below, or attach the results. (ppm) ML-10-7=0.0, ML-10-4=0.0, ML-17-1=0.0, ML-10-3=0.0, ML-17-5=0.0, ML-17-4=0.0, ML-17-8=0.0, ML-10-6=0.0, ML-10-9=0.0, ST-17-1=0.0, ST-17-2=0.0, ST-17-3=0.0, ST-17-6=0.0, ST-17-8=0.0, ST-14-1=0.0, ST-14-3=0.0, ST-14-5=0.0, ST-14-9=0.0, ST-14-7=0.0
3.7	Additional screening comments/observations

4. Analytical

4.1	If analytical samples were taken, please fill out the information below for each sample location.	
	Sample ID	See COC
	Location	
	Date/Time	
	Analysis	
	Media	
	Laboratory sent to	
	Sample ID	
	Location	
	Date/Time	
	Analysis	
	Media	
	Laboratory sent to	

4/24/18

Kiewit meridiam PARTNERS

4.2	Additional comments
4.3	Is additional sampling required prior to disposal? YES/NO If yes, please include additional information on what sampling is required, and attach results when sampling is completed.
5. Disposition Information	
5.1	Where was the soil disposed of? ONSITE/OFFSITE Complete the appropriate questions based on disposal location.
	Description of offsite disposal location Vine Industries (temp.)
	Quantity (CY) of excavated soil disposed, treated, reused onsite, or reused offsite 2x 5gal buckets
	If taken offsite to an approved disposal facility, provide the name of the facility taken to 55 gal drum at Vine
	Description of onsite disposal location
	Description of cover layer material for onsite disposal
	GPS or Survey Location of RHM Disposition - Please attach the marked up plan sheet

Include any other important observations or information related to the work activity or RHM encountered.

Kiewit meridiam PARTNERS

DAILY RECOGNIZED HAZARDOUS MATERIALS ACTIVITY REPORT

1. General Information		
1.1	Date	4/20/18
1.2	Time	0730
1.3	Weather	30s-60s sunny
1.4	Description of Work Activites	direct push
1.5	BMPs in place/used	silt curtain
1.6	Photos - Please attach photos that illustrate work being performed	see attached
2. RHM Origination		
2.1	Property Description (area where RHM was generated)	SE of I-70 + Brighton
2.2	Excavation Location(s)	ST-15-2, ST-15-4, ST-15-6, ST-15-9, ML-22-8-5, ML-22-9, ML-22-2, ML-20-7, ML-20-5, ML-20-1, ML-18-8, ML-18-4, ML-18-2, ML-18-6, ML-20-3, ML-20-9, ML-22-6
2.3	GPS or Survey Location of RHM Origination - Please attach the marked up plan sheet	39.780478, -104.963036
2.4	Identification of Vertical Horizon – Circle one	Asphalt and Conrete Surfacing; Road Base; (Near Surface Soil); (Shallow Unsaturated Soil); Unsaturated Soil; Saturated Soil
3. Field Screening/Monitoring		
3.1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration? (YES)/NO If yes, please explain further.	
3.2	Is there an indication of non-soil materials (e.g. debris, sludge, powders, coal-based fill) present in the disturbed material? YES/NO If yes, please explain further.	ash, red brick

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3.3	Is there a presence of a distinguishable odor with the disturbed material? YES/NO If yes, please explain further.
3.4	Are there discreet layers in the soil cross section that generally appear out of place? YES/NO If yes, please explain further.
3.5	Did the distrubed soil fail to pass any other "looks bad, smells bad" parameters? YES/NO If yes, please explain further.
3.6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material? YES/NO If yes, please include the analytes and results below, or attach the results. ST-15-2 = 0.0 ppm, ST-15-4 = 0.0 ppm, ST-15-6 = 0.0 ppm, ST-15-9 = 0.0 ppm, ML-22-8 = 0.0 ppm, ML-22-4 = 0.0 ppm, ML-22-2 = 0.0 ppm, ML-20-7 = 0.0 ppm, ML-20-5 = 0.0 ppm, ML-20-4 = 0.2 ppm, ML-18-8 = 0.0 ppm, ML-18-4 = 0.0 ppm, ML-18-2 = 0.0 ppm, ML-18-6 = 0.0 ppm, ML-20-3 = 0.0 ppm
3.7	Additional screening comments/observations

4. Analytical

4.1	If analytical samples were taken, please fill out the information below for each sample location. See COC	
	Sample ID	
	Location	
	Date/Time	
	Analysis	
	Media	
	Laboratory sent to	
	Sample ID	
	Location	
	Date/Time	
	Analysis	
	Media	
	Laboratory sent to	

4/25/13

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4.2	Additional comments
4.3	Is additional sampling required prior to disposal? YES/(NO) If yes, please include additional information on what sampling is required, and attach results when sampling is completed.
5. Disposition Information	
5.1	Where was the soil disposed of? ONSITE/(OFFSITE) Complete the appropriate questions based on disposal location.
	Description of offsite disposal location Vine Industries (Tagg)
	Quantity (CY) of excavated soil disposed, treated, reused onsite, or reused offsite 2 x 55 gal Lachat
	If taken offsite to an approved disposal facility, provide the name of the facility taken to 55 gal drum at Vine
	Description of onsite disposal location
	Description of cover layer material for onsite disposal
	GPS or Survey Location of RHM Disposition - Please attach the marked up plan sheet

Include any other important observations or information related to the work activity or RHM encountered.

Monitoring Technician Log 30Apr2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018043032567.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 Apr 2018	**Event Date:** 30 Apr 2018		0	0
Completed: 01 May 2018	**Due Date:** 30 Apr 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 Apr 2018

1.2 Time

:09:02 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::7206459808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::50

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 & Brighton Blvd

2.2 Excavation Location(s)

Location::ML-19-7, ML-21-8, ML-21-6, ML-21-4, ML-21-2, ML-19-9, ML-19-5, ML-19-3, ST-17-1,ML30-5

Attachments:



Associated by Alex Becker on 01 May 2018



Associated by Alex Becker on 01 May 2018



Associated by Alex Becker on 01 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.779857, 104.964611

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:ML-19-7=0.0ppm, ML-21-8=0.0ppm , ML-21-6=1.4ppm, ML-21-4=1.0ppm, ML-21-2=1.6ppm, ML-19-9=1.6ppm, ML-19-5= 1.0ppm, ML-19-3=0.9ppm,ST-17-1=2.0ppm, ML30-5=1.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Analytical Chain of Custody

Time:09:21 am

Date:30 Apr 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::Temporary storage in 55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 1May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050127433.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 01 May 2018	**Event Date:** 01 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 01 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:01 May 2018

1.2 Time

:07:37 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenviromnental.com

1.4 Weather

Temperature (F)::50

Weather::Overcast

1.5 Descriptions of Work Activities

:Direct push for soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 & York

2.2 Excavation Location(s)

Location::ML-32-8, ML-32-2, ML-30-1,ML-26-9, ML-29-3,ML-29-5, ML-29-1, ST19-3, ML29-7,ML31-5, ST19-9, ST-19-5, ST19-1, ST20-1, ST19-7, ST20-6, ST20-4, ST20-2, ST20-8,

Attachments:



Associated by Alex Becker on 01 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.780246, -104.959803

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red Brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<2ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Time:02:59 PM

Date:01 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 2May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050228975.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 02 May 2018	**Event Date:** 02 May 2018		0	0
Completed: 02 May 2018	**Due Date:** 02 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:02 May 2018

1.2 Time

:08:02 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::40

Weather::Rain

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 & York

2.2 Excavation Location(s)

Location::ML-29-9, ML-31-7, ML-26-5, ML-26-8, ML-28-5, ML-28-9, ML-26-9

2.3 GPS or Survey Location of RHM Origination

:39.780381,-104.960714

2.4 Identification of Vertical Horizon

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<2.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::Offsite 55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 4May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050428447.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 04 May 2018	**Event Date:** 04 May 2018		0	0
Completed: 04 May 2018	**Due Date:** 04 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:04 May 2018

1.2 Time

:07:54 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::60

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 &Vine St

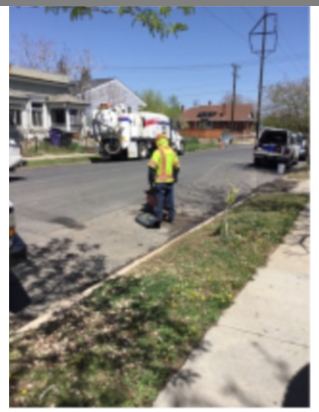
2.2 Excavation Location(s)

Location::ST-16-4, ML-19-4, ST-12-1, ST-12-4, ML-5-2, ML-5-1, ML-3-7, ML-3-1, ML-1-6, ML-1-2

Attachments:



Associated by Alex Becker on 04 May 2018



Associated by Alex Becker on 04 May 2018



Associated by Alex Becker on 04 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.780361, -104.962716

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick, concrete,

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:All <3.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:03:11 pm

Date:04 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::In 55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 7May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050728692.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 07 May 2018	**Event Date:** 07 May 2018		0	0
Completed: 07 May 2018	**Due Date:** 07 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:07 May 2018

1.2 Time

:07:58 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::70

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

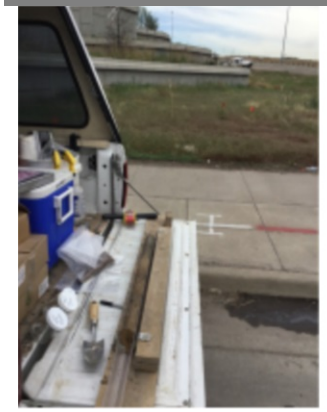
2.1 Property Description (area material was generated)

:I-70 and Brighton Blvd

2.2 Excavation Location(s)

Location::ST-16-4, ST-12-3, ST-12-2, ML3-5, ML-5-9, ML-5-7, ML-5-4, ML-15-5, ML-12-3, ML-11-6, ML-9-8, ML-11-2

Attachments:



Associated by Alex Becker on 07 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.780355, -104.967075

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick, wood, glass

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<5.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 8May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050828608.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 08 May 2018	**Event Date:** 08 May 2018		0	0
Completed: 08 May 2018	**Due Date:** 08 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:08 May 2018

1.2 Time

:07:56 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::79

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Brighton Blvd

2.2 Excavation Location(s)

Location::ML-9-3, ML-9-6, ML-9-1, ST-9-3, ML-7-6, ML-7-9, ML-9-5, ML-11-8, ML-11-4, ML-12-1, ML-12-9, ML-12-5, ML-15-1, M-15-5, ML-15-3, ML-15-9, ML-17-4, ML17-6

2.3 GPS or Survey Location of RHM Origination

:39.780424, -104.966512

2.4 Identification of Vertical Horizon

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick, wood

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<2.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:08:03 am

Date:08 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 9May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050928085.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 09 May 2018	**Event Date:** 09 May 2018		0	0
Completed: 09 May 2018	**Due Date:** 09 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:09 May 2018

1.2 Time

:07:48 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::70

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Brighton Blvd

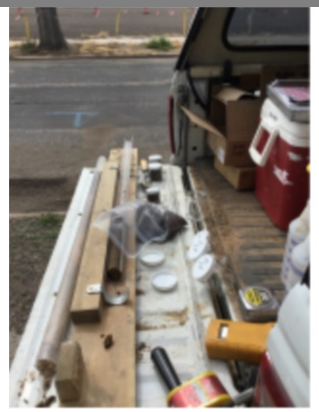
2.2 Excavation Location(s)

Location::ML17-9, ML8-8,ST10-2,ST10-4,ST11-2,ST-4-3, ST5-2,ML7-1, ML7-4,ST7-2, ST4-1, ML8-2, ML17-2, ST5-3, ST5-1, ML12-7,ML8-6, ML8-4, ST8-1, ST7-4

Attachments:



Associated by Alex Becker on 09 May 2018



Associated by Alex Becker on 09 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.779902, -104.966282

2.4 Identification of Vertical Horizon

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick, wood

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<2.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:07:52 am

Date:09 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 10May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051031153.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 10 May 2018	**Event Date:** 10 May 2018		0	0
Completed: 10 May 2018	**Due Date:** 10 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:10 May 2018

1.2 Time

:08:39 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@hydroresources.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

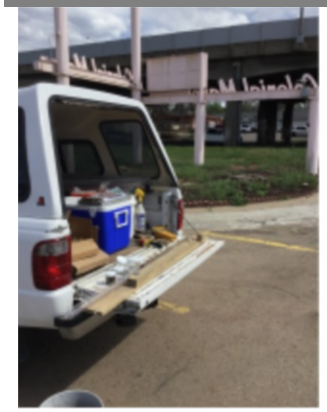
2.1 Property Description (area material was generated)

:I70 and Brighton Blvd

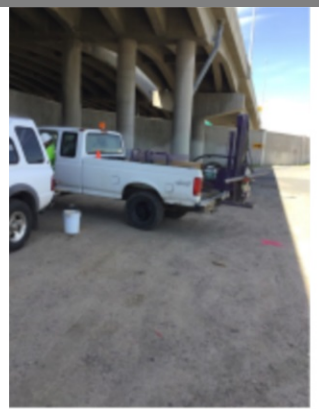
2.2 Excavation Location(s)

Location::ML14-3, ML14-4, ML15-7, ML14-7, ML14-8, ML16-6, ML16-8, ML16-4, ML16-2,ST8-3, ML45-2, ML45-6, ML45-4, ML45-8,ML47-1, ML47-3, ML47-5, ML 47-9, ML47-7

Attachments:



Associated by Alex Becker on 10 May 2018



Associated by Alex Becker on 10 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.780441, -104.963380

2.4 Identification of Vertical Horizon

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick, ceramic

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<3.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:05:43 pm

Date:10 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 11May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051128976.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 11 May 2018	**Event Date:** 11 May 2018		0	0
Completed: 23 May 2018	**Due Date:** 11 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:11 May 2018

1.2 Time

:08:02 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::70

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liners cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Thompson, I-70 and York

2.2 Excavation Location(s)

Location::ST104-4, ST104-2, ML31-5, ML-33-1, ST23-1, ST22-3, ST23-2, ST24-2, ML33-3

Attachments:



Associated by Alex Becker on 23 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.780710, -104.955234, ST104-4: 39.780715, -104.954821,ST104-2: 39.780833,-104.955460, ML31-5: 39.780622, -104.959946: Ml33-1 39.780535, -104.959954, ST23-1: 39.781420, -104959532, ST22-3:39.781609,-104.959507, ST23-2: 39.781064,-104.959635, ST24-2: 39.780877, -104.959577, ML33-3: 39.780703, -104.959641

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<2.0ppm

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:07:51 am

Date:14 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 14May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051428905.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 14 May 2018	**Event Date:** 14 May 2018		0	0
Completed: 04 Jun 2018	**Due Date:** 14 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:14 May 2018

1.2 Time

:08:01 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::60

Weather::Overcast

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and York

2.2 Excavation Location(s)

Location::ST-28-5, ST28-8, ST-28-6, ML36-5, ML36-2, ML35-6, ML35-8, ML36-6, ST27-1, ML27-2, ML35-2, ST24-2

2.3 GPS or Survey Location of RHM Origination

:See log book

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick, styrofoam

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:<2.0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:01:27 pm

Date:14 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum ar Vine Laboratories

Monitoring Technician Log 15May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051528129.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 15 May 2018	**Event Date:** 15 May 2018		0	0
Completed: 04 Jun 2018	**Due Date:** 15 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:15 May 2018

1.2 Time

:07:48 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::70

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Columbine

2.2 Excavation Location(s)

Location::ML41-1, ML41-8, ML39-1, ML39-5, ML41-4, ML41-7, ML41-3, ML39-8, ML-39-4, ST30-1, ML37-1, ML37-3, ML35-5, ML37-9, ML37-3, ST28-1, ML34-6, ML38-2, ML38-8, ML38-6, ML37-7

2.3 GPS or Survey Location of RHM Origination

:See logbook and Google maps

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:See log book

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Monitoring Technician Log 16May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051628531.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 16 May 2018	**Event Date:** 16 May 2018		0	0
Completed: 23 May 2018	**Due Date:** 16 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:16 May 2018

1.2 Time

:07:55 am

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 & Columbine

2.2 Excavation Location(s)

Location::ST27-1, ST30-3, ML40-3, ML40-5,ML40-9, ML40-1, ML40-7-5, ML49-1-5, ML46-6-5, ML46-2-5, ML38-4-5, ML51-4-5, ML51-1-5, ML51-3-5, ML49-8-5, ML49-4-5, ML46-9-5, ML-46-5-5, ML44-9-5, ML44-6-5, ML44-3-5, ML44-7-5

Attachments:



Associated by Alex Becker on 23 May 2018

2.3 GPS or Survey Location of RHM Origination

:See log book and Google Maps

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:09:55 am

Date:16 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Submit:Initiated

Monitoring Technician Log 17May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051730430.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 17 May 2018	**Event Date:** 17 May 2018		0	0
Completed: 04 Jun 2018	**Due Date:** 17 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:17 May 2018

1.2 Time

:08:27 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 & Thompson Ct

2.2 Excavation Location(s)

Location::ML49-5-5, ML51-7-5, ST30-4-2, ML44-2-5, ML59-6-5, ML-60-3-5, ML60-9-5, ML62-6-5, ML62-7-5, ML62-2-5, ML60-5, ST09-1-2, ML59-8-5, ML59-2-5, ML59-4-5

Attachments:



Associated by Alex Becker on 30 May 2018

2.3 GPS or Survey Location of RHM Origination

:See log book: ML49-5-5: 39.7802530, -104.9545467, ML51-7-5: 39.7801, -104.9537, ST30-4-2: 39.7801, -104.9563, ML44-2-5: 39.7801, -104.9568, ML59-6-5: 39.7801, -104.9518, ML60-3-5: 397800, -104.9511, ML60-9-5: 39.7800, -104.9508, ML62-6-5: 39.7800, -104.9500, ML62-7-5:39.7803,-104.9502,ML62-2-5:39.7803,-104.9506,ML60-5-5:39.7803,-104.9510, ST09-1-2:39.7811,-104.9666, ML59-8-5:39.7803, -104.9512, ML59-2-5:39.7802,-104.9516, ML59-4-5:39.7803,-104.9514,

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Depth to native soil for each borehole noted in log book

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:See log book

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Monitoring Technician Log 18May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051829192.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 18 May 2018	**Event Date:** 18 May 2018		0	0
Completed: 04 Jun 2018	**Due Date:** 18 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:18 May 2018

1.2 Time

:08:06 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::70

Weather::Overcast

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 & Steele St.

2.2 Excavation Location(s)

2.3 GPS or Survey Location of RHM Origination

:See log book,

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Depth to native soil for each borehole noted in logbook

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:See log book

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:08:15 am

Date:18 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Monitoring Technician Log 21May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052130343.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 21 May 2018	**Event Date:** 21 May 2018		0	0
Completed: 04 Jun 2018	**Due Date:** 21 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:21 May 2018

1.2 Time

:08:25 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::70

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele St

2.2 Excavation Location(s)

Location::ML60-1-5, ML58-7-5, ML61-2-5, ML60-7-5, ML51-8-5, ML61-3-5, ML61-8-5, ML62-4-5, ML61-6-5, ML67-6-5, ML53-2-2, ST53-2-2, ML72-45-5, ML72-6-5, ML72-8-5, ML72-2-5, ML74-6-5, ML74-4-5, ML74-2-5, ST54-4-2, ST54-1-5, ST53-4-2

2.3 GPS or Survey Location of RHM Origination

:See log book: ML58-7-5: 39.7804, -104.9513ML60-1-5: 39.7803, -104.9511, ML61-7-5:39.7805,-104.9510, ML60-7-5:39.7804,-104.9508, ML58-8-5:39.7806,-104.9510, ML61-3-5:39.7806,-104.9508, ML61-8-5:39.7806,-104.9504, ML62-4-5:39.7803,-104.9505, ML61-6-5: 39.7805, -104.9508, ML67-6-5: 39.7806,-104.9504, ST53-2-2: 39.7808, -104.9486, ML72-4-5:39.7807,-104.9475, ML72-6-5:39.7804,-104.9475, ML72-8-5:39.7805, -104.9475, ML72-2-5:39.7805,-10.9475, ML74-6-5:39.7803, -104.9473, ML74-4-5:39.7806,-104.9472, ML74-2-5:39.7807,-104.9474, ST54-4-2:39.7810,-104.9474, ST54-1-5:39.7810,-104.978, ST53-4-2:39.7708,-104.9478

2.4 Identification of Vertical Horizon

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:See log book

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:See Chain of Custody

Time:08:31 am

Date:21 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

Monitoring Technician Log 2May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050235869.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 02 May 2018	**Event Date:** 02 May 2018		0	0
Completed: 03 May 2018	**Due Date:** 02 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:02 May 2018

1.2 Time

:09:57 am

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::7206268778

Email::Kmoore@familyenvironmental.com

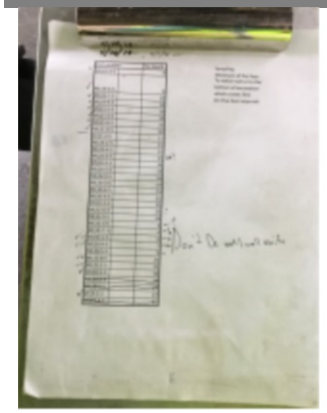
1.4 Weather

Temperature (F)::48

Weather::Rain

1.5 Descriptions of Work Activities

Attachments:



Associated by Karina Moore on 03 May 2018

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:39.780 lat 104.9645 long

2.2 Excavation Location(s)

Location::ST17-3, ML26-5, ML26-4, ML26-6, ML30-3, ML30-6, ML30-9, ML32-3, ML32-6, ML32-9, ML31-8

2.3 GPS or Survey Location of RHM Origination

:39.780 lat, 104.9645 long

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:See remark and photos.

*ML31-8 from approximately 6" to 3' brick, glass and coal observed. *

Attachments:



Associated by Karina Moore on 03 May 2018



Associated by Karina Moore on 03 May 2018

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:All readings below 3ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

Monitoring Technician Log 3May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018050338015.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 03 May 2018	**Event Date:** 03 May 2018		0	0
Completed: 03 May 2018	**Due Date:** 03 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:03 May 2018

1.2 Time

:10:33 am

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::7206268778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::46

Weather::Rain

1.5 Descriptions of Work Activities

:Soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:NW of York and 46th, SW of 46th and Race

2.2 Excavation Location(s)

2.3 GPS or Survey Location of RHM Origination

2.4 Identification of Vertical Horizon

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:Yes

If yes, please explain further:Photo ml-19-4 staining at 7’ to 8’ then native.

*ML28-3 dark coloration in soil from approx 1 to 2 feet. *

Attachments:



Associated by Karina Moore on 03 May 2018

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

3.3 Is there a presence of a distinguishable odor with the disturbed material?

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:Readings did not exceed 2ppm at sample locations

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Time:06:18 pm

Date:03 May 2018

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

Monitoring Technician Log 11May2018

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018051140403.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 11 May 2018	**Event Date:** 11 May 2018		0	0
Completed: 11 May 2018	**Due Date:** 11 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:11 May 2018

1.2 Time

:11:13 am

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::7206268778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::76

Weather::Sunny

1.5 Descriptions of Work Activities

:Soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Vicinity of York and 46th

2.2 Excavation Location(s)

Location::ML35-4-5 39.7807. -104.9588 VOC=10.3ppm at five feet

:Add Another

Location::ST24-4-2 39.7808 -104.9589 VOC=0.8ppm at five feet

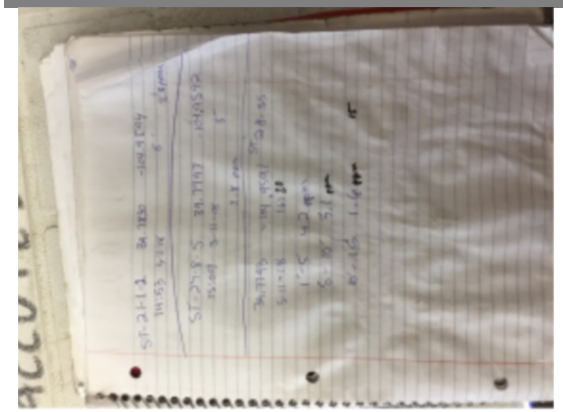
:Add Another

Location::ML33-8-5 39.7807 -104.9592 VOC=7.6 at five feet

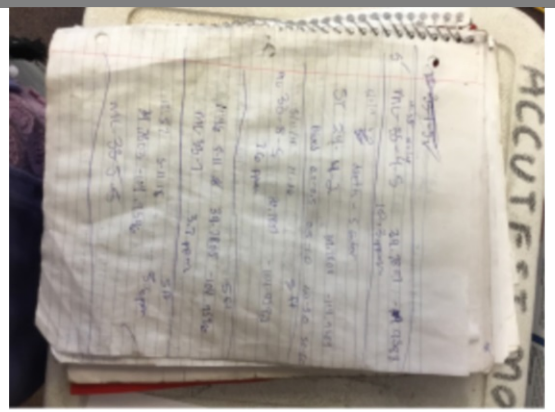
2.3 GPS or Survey Location of RHM Origination

:GPS and sample locations attached

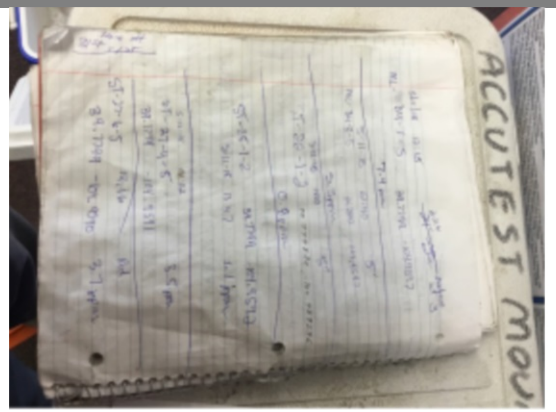
Attachments:



Associated by Karina Moore on 11 May 2018



Associated by Karina Moore on 11 May 2018



Associated by Karina Moore on 11 May 2018

2.4 Identification of Vertical Horizon

:Near Surface Soil

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

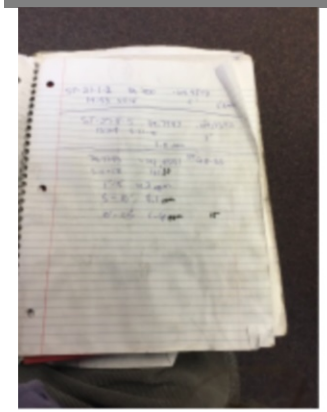
3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

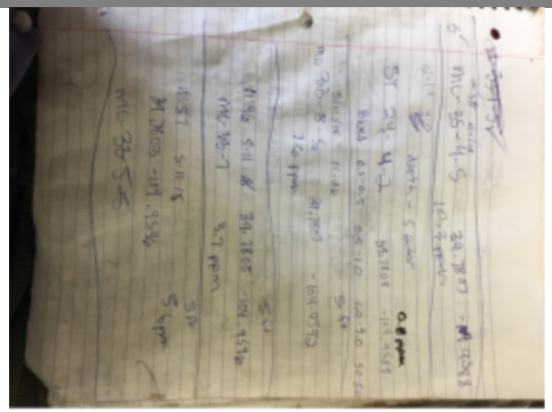
3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

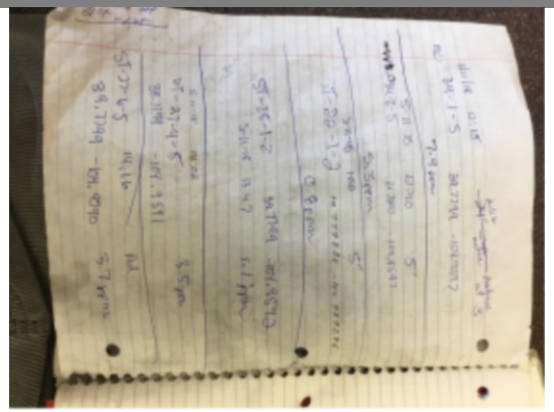
Attachments:



Associated by Karina Moore on 11 May 2018



Associated by Karina Moore on 11 May 2018



Associated by Karina Moore on 11 May 2018

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::Vine collected excess soil generated during daily activities.

Submit:Initiated

ML36-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052539308.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:10:55 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Hand auger to 1’ fill

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck stop

2.2 Excavation Location(s)

Location::ML36-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7800,-104.9587

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Hand auger to 1’ fill

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:ML36-9-0'-0.5'; .5'-1'

Location:ML36-9-5

Time:09:30 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML51-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052460593.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:04:49 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML51-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7802,-104.9534

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML51-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML51-8-5

Time:02:53 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML52-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052348220.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:01:23 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML52-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7805, -104.9538

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML52-2-0’-0.5’; .5’-1’; 1’-5’

Location:ML52-2-5

Time:01:28 PM

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML52-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052350048.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:01:54 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML52-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9535

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML52-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML52-4-5

Time:01:43 PM

Date:23 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML52-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052348113.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:01:21 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML52-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104.9538

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.0 ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML52-6-0’-0.5’; .5’-1’; 1’-5’

Location:ML52-6-5

Time:01:53 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

Submit:Initiated

ML52-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052358158.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:04:09 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML52-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7805, -104.9535

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML52-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML52-8-5

Time:01:32 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML53-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052362569.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:05:22 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML53-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9532

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML53-1-0’-0.5’; .5’-1’; 1’-5’

Location:ML53-1-5

Time:05:36 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML53-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052345445.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:12:37 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML53-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104.9533

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML53-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML53-3-5

Time:01:30 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML53-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052346004.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:12:46 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML53-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104.9531

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML53-5-0’-0.5’; .5’-1’; 1’-5’

Location:ML53-5-5

Time:01:02 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML53-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052460720.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:04:52 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML53-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7805,-104.9528

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML53-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML53-7-5

Time:03:04 PM

Date:03 Jun 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML53-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052540883.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:11:21 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot truck stop

2.2 Excavation Location(s)

Location::ML53-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7802,-104.9528

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML53-9-0’-0.5’; .5’-1’; 1’-5’

Location:ML53-9-5

Time:10:07 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 54-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052233045.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:09:10 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I 70 and Steele

2.2 Excavation Location(s)

Location::ML 54-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7803, -104.9527

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Depth to native 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Basalt

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.9ppm

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 54-7-0'-0.5'

Location:ML 54-7-5

Time:07:32 AM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML 54-7-.5'-1'

Location:ML 54-7-5

Time:11:57 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID:CSB-ML54-7-1'-5'

Location:ML 54-7-5

Time:11:57 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML55-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052460895.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:04:54 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML55-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7804,-104.9527

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:2'

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML55-2-0’-0.5’; .5’-1’; 1’-5’

Location:ML55-2-5

Time:03:19 PM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML55-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052234319.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:09:32 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML55-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9526

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.1

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML55-4 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ML55-4-5

Time:10:38 AM

Date:23 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

Submit:Initiated

ML 55-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052233909.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:09:25 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML 55-6-5

2.3 GPS or Survey Location of RHM Origination

:33.7803, -104.9526

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

Complete Form:Initiated

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML55-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ML 55-6-5

Time:08:50 AM

Date:22 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML55-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052362650.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:05:24 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location:: ML55-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7806,-104.9525

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML55-8-0’-0.5’; .5’-1’; 1’-5’

Location: ML55-8-5

Time:12:58 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML57-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052362713.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:05:25 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML57-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9522

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML57-1-0'-0.5'; .5'-1'; 1'-5'

Location:ML57-1-5

Time:01:04 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 57-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052234006.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:09:26 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML 57-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7803, -104.9522

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

Complete Form:Initiated

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML57-3 (5’ Intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ML 57-3-5

Time:03:23 PM

Date:22 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML57-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052460436.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:04:47 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML57-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7804,-104.9520

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML57-5-0’-0.5’; .5’-1’; 1’-5’

Location:ML57-5-5

Time:02:30 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML57-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052358252.0

Lead Reporter: Alex Becker

Started: 23 May 2018

Completed: 08 Jun 2018

KieFIT Indicator 1

Status: Complete

Event Date: 23 May 2018

Due Date: 23 May 2018

Actions:	Total	Overdue
	0	0

Follow Up: 0

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:04:10 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML57-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7806,-104.9517

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 9’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML57-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML57-7-5

Time:01:21 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML57-7-5'-09'

Location:ML57-7-5

Time:02:39 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML58-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052358320.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:04:12 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML58-3-5

2.3 GPS or Survey Location of RHM Origination

:38.7806, -104.9517

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments: Native at 9’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.6

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML58-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML58-3-5

Time:01:16 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML58-3-5’-9’

Location:ML58-3-5

Time:02:43 PM

Date:23 May 2018

Media:soil

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML58-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052362484.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:05:21 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location:: ML58-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9514

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 9’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB- ML58-4-0’-0.5’; .5’-1’; 1’-5’

Location: ML58-4-5

Time:05:22 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML58-4-5’-9’

Location:ML58-4-5

Time:02:53 PM

Date:23 May 2018

Media:soil

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

Submit:Initiated

ML67-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052332104.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:08:55 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

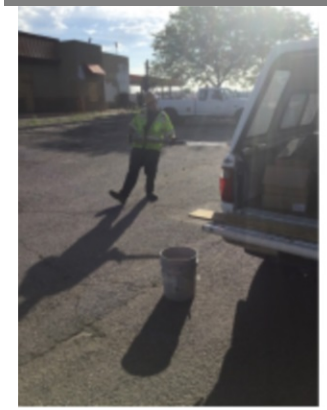
Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

Attachments:



Associated by Alex Becker on 24 May 2018

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML67-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9491

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 9’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.1

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML67-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML 67-3-5

Time:01:38 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML67-3-5’-9’

Location:ML 67-3-5

Time:02:32 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML67-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052256276.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:03:37 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML67-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7807, -104.9483

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML67-8 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ML67-8-5

Time:05:28 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML68-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052545632.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:12:40 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:pilot truck stop

2.2 Excavation Location(s)

Location::ML68-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7802,-104.9489

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML68-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML68-3-5

Time:11:13 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML68-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052545514.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:12:38 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:pilot truck stop

2.2 Excavation Location(s)

Location::ML68-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7802,-104.9489

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML68-9-0’-0.5’; .5’-1’; 1’-5’

Location:ML68-9-5

Time:11:05 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML69-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052545348.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:12:35 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot truck stop

2.2 Excavation Location(s)

Location::ML69-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7802,-104.9485

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML69-6-0’-0.5’; .5’-1’; 1’-5’

Location:ML69-6-5

Time:10:48 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML71-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052254411.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:03:06 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML71-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9481

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 7’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML71-2 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ML71-2-5

Time:03:31 PM

Date:22 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML71-2-5'-7'

Location:ML71-2-5

Time:02:16 PM

Date:22 May 2018

Media:soil

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML71-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052545066.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:12:31 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot truck stop

2.2 Excavation Location(s)

Location::ML71-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7802,-104.9481

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:6.8

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML71-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML71-4-5

Time:10:42 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML71-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052252554.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:02:35 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML71-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9480

2.4 Identification of Vertical Horizon

:Near Surface Soil

Attachments:



Associated by Mia Steenkamp on 08 Jun 2018

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML71-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ML71-6-5

Time:03:40 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML73-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052548975.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:01:36 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email:: abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:pilot truck stop

2.2 Excavation Location(s)

Location::ML73-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7803, -104.9477

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:6.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML73-3-0'-0.5'; .5'-1'; 1'-5'

Location:ML73-3-5

Time:11:51 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML73-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052549100.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:01:38 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner Cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck stop

2.2 Excavation Location(s)

Location::ML73-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7803,-104.9474

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.8

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-73-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML73-7-5

Time:11:55 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML74-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052341191.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:11:26 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML74-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104.9471

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML74-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML74-8-5

Time:05:32 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML52-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052350048.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:01:54 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML52-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9535

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML52-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML52-4-5

Time:01:43 PM

Date:23 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML75-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052548773.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:01:32 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:pilot truck stop

2.2 Excavation Location(s)

Location::ML75-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7803,-104.9466

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 3’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML75-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML75-7-5

Time:11:42 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML76-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052429013.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:08:03 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML76-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7808,-104.9470

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Red brick

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.5

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML76-1-0’-0.5’; .5’-1’; 1’-5’

Location:ML76-1-5

Time:08:23 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML76-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052435505.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:09:51 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML76-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7806,-104.9469

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:No

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML-76-2-0'-0.5'; .5'-1'; 1'-5'

Location:ML-76-2-5

Time:08:26 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML76-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052441594.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:11:33 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML76-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9462

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML76-5-0’-0.5’; .5’-1’; 1’-5’

Location:ML76-5-5

Time:10:14 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML76-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052451040.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:02:10 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML76-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9464

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML76-6-0'-0.5'; .5'-1'; 1'-5'

Location:ML76-6-5

Time:12:24 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML76-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052449088.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:10:41 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML76-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9462

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML-76-9-0’-0.5’; .5’-1’; 1’-5’

Location:ML76-9-5

Time:10:41 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML77-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052435362.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:09:49 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML77-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104.9469

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML-77-2-0'-0.5'; .5'-1'; 1'-5'

Location:ML-77-2-5

Time:08:15 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML-77-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052439705.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:11:01 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling. .

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML77-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7805, -104.9466

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right: 4.8

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML77-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML77-3-5

Time:09:49 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML77-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052438315.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:10:38 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML77-6-5 (initially drilled as ML 76-6-5)

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104.9466

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML77-6-0’-0.5’;.5’-1’;1’-5’

Location:ML77-6-5

Time:09:00 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML77-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052450819.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:02:07 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML77-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7805, -104.9464

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.6

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML77-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML77-7-5

Time:12:17 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML77-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052453644.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:02:54 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML77-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7805,-104.9460

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:10'

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.9

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML-77–9-0’-0.5’; .5’-1’; 1’-5’

Location:ML77-9-5

Time:01:18 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML77-9-5'-10'

Location:ML77-9-5

Time:06:07 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML78-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052551564.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:02:19 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML78-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7798,-104.9473

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.6

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML78-2-0’-0.5’; .5’-1’; 1’-5’

Location:ML78-2-5

Time:12:46 PM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML78-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052551756.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:02:22 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email:: abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:pilot truck stop

2.2 Excavation Location(s)

Location::ML78-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7798,-104.9448

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML78-6-0’-0.5’; .5’-1’; 1’-5’

Location:ML78-6-5

Time:01:07 PM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML79-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052449568.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:01:46 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML79-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7808, -104.9459

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.9

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML79-2-0’-0.5’; .5’-1’; 1’-5’

Location:ML79-2-5

Time:10:55 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML79-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052450541.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:02:02 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML79-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7805,-104.9459

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 10’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.8

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML79-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML79-4-5

Time:11:09 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML79-4-5’-10’

Location:ML79-4-5

Time:02:56 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML79-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052453832.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:02:57 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML79-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7805, -104.9460

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML79-9-0’-0.5’; .5’-1’; 1’-5’

Location:ML79-9-5

Time:01:17 PM

Date:24 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML81-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052534498.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:09:34 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:pilot truck stop

2.2 Excavation Location(s)

Location::ML81-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7803,-104.9452

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML81-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML81-8-5

Time:08:15 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML83-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052534332.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:09:32 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner Cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML83-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7804,-104.9450

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML83-1-0’-0.5’; .5’-1’; 1’-5’

Location:ML83-1-5

Time:08:07 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML83-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052531567.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:08:46 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ML83-5-5

Attachments:



Associated by Alex Becker on 30 May 2018

2.3 GPS or Survey Location of RHM Origination

:39.7803,-104.9448

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.7 ppm

3.7 Additional Screening Comments/Observations:

:PID calibrated

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML83-5-0’-0.5’; .5’-1’; 1’-5’

Location:ML83-5-5

Time:07:56 AM

Date:25 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML 56-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052235889.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:09:58 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ML 56-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7802, -104.9520

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML56-6- 0'-0.5'

Location:ML56-6-5

Time:10:39 AM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML56-6-.5'-1'

Location:ML56-6-5

Time:11:53 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID:CSB-ML56-6-1’-5’

Location:ML56-6-5

Time:11:53 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML57-9-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053063365.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:05:36 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Hand dig

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

2.2 Excavation Location(s)

Location::ML57-9-5

2.3 GPS or Survey Location of RHM Origination

:39.7804,-104.9518

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:Hand dig 1'

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML57-9-0'-.5'; .5'-1'

Location:ML57-9-5

Time:05:38 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

ML62-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052945770.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:12:42 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ST62-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7809,-104.9446

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:4

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML62-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML62-3-5

Time:12:44 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 80-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052932226.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:08:57 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::56

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML 80-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7804, -104. 9455

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:4 feet

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 80-2-0’-0.5’; .5’-1’; 1’-5’

Location:ML 80-2-5

Time:09:42 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML 80-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052934003.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:08:26 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::58

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML 80-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7808, -104.9454

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:4 feet

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.6

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 80-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML 80-3-5

Time:09:40 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML 80-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052932907.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:08:08 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::56

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML 80-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9454

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:7 feet

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 80-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML 80-4-5

Time:09:16 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML 80-4-5'-7'

Location:ML 80-4-5

Time:05:06 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 80-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052935447.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:09:50 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::58

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML 80-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9451

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

:Unsaturated Native Soil

2.5 Depth to Native Material (feet)

:7 feet

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Wood

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 80-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML 80-7-5

Time:10:48 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML 80-7-5'-7'

Location:ML 80-7-5

Time:10:48 AM

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 80-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053031400.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:07:51 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::59

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield (Field)

2.2 Excavation Location(s)

Location::ML 80-8-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780488 Longitude: -104.945254

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:8.1 ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 80-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML 80-8-5

Time:08:55 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML81-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052931423.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:08:47 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::56

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location:: ML-81-2-5

2.3 GPS or Survey Location of RHM Origination

:39.7803, -104.9455

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2 feet

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:Yes

If yes, please explain further:Wood. Styrofoam

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID: CSB-ML81-2-0’-0.5’; .5’-1’; 1’-5’

Location: ML-81-2-5

Time:08:56 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 82-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052936388.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:10:06 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::58

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML 82-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7806, -104.9451

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

:Unsaturated Native Soil

Comments::Native at 5’

2.5 Depth to Native Material (feet)

:5

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 82-1-0’-0.5’; .5’-1’; 1’-5’

Location:ML 82-1-5

Time:10:12 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 82-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053030209.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:07:23 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::79

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML 82-4-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780504 Longitude: -104.944917

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.4 ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML82-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML 82-4-5

Time:07:50 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML82-5–5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052956579.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:03:43 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and garfield

2.2 Excavation Location(s)

Location::ML82-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7809,-104.9449

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:4

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.9

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML82-5–0’-0.5’;.5’-1’;1’-5’

Location:ML82-5–5

Time:03:44 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML82-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052950582.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:02:03 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::59

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield (Field)

2.2 Excavation Location(s)

Location::ML82-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7805,-104.9448

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

:Unsaturated Native Soil

2.5 Depth to Native Material (feet)

:17

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2 .8

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML82-6-0’-0.5’; .5’-1’; 1’-5’

Location:ML82-6-5

Time:02:40 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML82-6-5'-10'

Location:ML82-6-5'-10

Time:04:55 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML82-6-10'-15'

Location:ML82-6-5

Time:04:57 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML82-6-15'-17'

Location:ML82-6-5

Time:04:58 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML83-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052964062.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:03:47 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield (Field)

2.2 Excavation Location(s)

Location::ML83-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7805,-104.9448

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML83-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML83-7-5

Time:03:43 PM

Date:03 Jun 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

ML84-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052959263.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:04:27 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield (Field)

2.2 Excavation Location(s)

Location::ML84-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9445

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:17

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML84-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML84-3-5

Time:04:28 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-3-5'-10'

Location:ML84-3-5

Time:04:39 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-3-10'-15'

Location:ML84-3-5

Time:04:40 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-3-15'-17'

Location:ML84-3-5

Time:04:40 PM

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML84-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052960244.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:04:44 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:3601 E 46th Ave

2.2 Excavation Location(s)

Location::ML84-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7805, -104.9444

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML84-5-0’-0.5’; .5’-1’; 1’-5’

Location:ML84-5-5

Time:04:13 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML84-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052956381.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:03:39 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and garfield

2.2 Excavation Location(s)

Location::ML84-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7807,-104.9443

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:9

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML84-6-0’-0.5’; .5’-1’; 1’-5’

Location:ML84-6-5

Time:04:17 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)SGS North America

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-6-5'-9'

Location:ML84-6-5

Time:05:04 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)SGS North America

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML84-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052956860.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:03:47 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ML84-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7805,-104.9442

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:17

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML84-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML84-8-5

Time:04:07 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-8-5'-10'

Location:ML84-8-5

Time:04:07 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-8-10'-15'

Location:ML84-8-5

Time:04:07 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML84-8-15'-17'

Location:ML84-8-5

Time:04:07 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML86-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053033277.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:08:14 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::61

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Jackson

2.2 Excavation Location(s)

Location::ML 86-2-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780511 Longitude: -104.944061

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:8.5 ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML86-2-0’-0.5’; .5’-1’; 1’-5’

Location:ML86-2-5

Time:08:29 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 86-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053129936.1

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:07:18 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::65

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Corner of Jackson and 46th (Parking lot)

2.2 Excavation Location(s)

Location::ML 86-4-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780669 Longitude: -104.943795

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2-3

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML86-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML 86-4-5

Time:07:45 AM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML86-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053054229.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:03:03 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location::ML86-6-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780403 Longitude: -104.943721

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:4

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:5.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML86-6-0’-0.5’;.5’-1’;1’-5’

Location:ML86-6-5

Time:01:47 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML86-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053050361.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 10 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:01:59 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson St

2.2 Excavation Location(s)

Location::ML86-8-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780525 Longitude: -104.943642

: 2nd hole: 39.780525, -104.943630

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:1) Refusal at 26. 2) Refusal at 17'

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:18.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML86-8- 1’-5’

Location:ML86-8-5

Time:12:34 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML86-8- 5’-10’

Location:ML86-8-5

Time:12:36 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML86-8-10’-15’

Location:ML86-8-5

Time:12:38 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML86-8-15'-20'

Location:ML86-8-5

Time:12:38 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML86-8-20'-25'

Location:ML86-8-5

Time:01:20 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories

ML88-2-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053057404.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 10 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:03:56 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location::ML88-2-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780444 Longitude: -104.943499

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:Refusal at 26’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:6.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML88-2-0’-0.5’;.5’-1’;1’-5’

Location:ML88-2-5

Time:02:10 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML88-2- 5'-10'

Location:ML88-2-5

Time:02:12 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML88-2-10'-15'

Location:ML88-2-5

Time:02:17 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML88-2-15’-20'

Location:ML88-2-5

Time:02:19 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML88-2-20’-25'

Location:ML88-2-5

Time:02:11 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 88-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053038480.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:10:41 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th & Jackson

2.2 Excavation Location(s)

Location::ML 88-3-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780689 Longitude: -104.943278

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:7

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 88-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML 88-3-5

Time:10:41 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ML 88-3-5'-7'

Location:ML 88-3-5

Time:10:44 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML88-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053061672.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 10 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:05:07 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location::ML88-4-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780537 Longitude: -104.943350

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:Geo probe failure

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:25.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:ML88-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML88-4-5

Time:03:24 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:ML88-4- 5’-10’

Location:ML88-4-5

Time:03:26 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:ML88-4-10'-15’

Location:ML88-4-5

Time:03:28 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:ML88-4-15'-20’

Location:ML88-4-5

Time:03:28 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 88-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053038002.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:10:33 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Jackson

2.2 Excavation Location(s)

Location::ML 88-7-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780518 Longitude: -104.943156

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:6.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 88-7-0’-0.5’;.5’-1’;1’-5’

Location:ML 88-7-5

Time:11:18 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 90-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053136949.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:09:15 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::84

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:East corner of Jackson and 46th, south of building

2.2 Excavation Location(s)

Location::ML 93-3-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780580 Longitude: -104.942608

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:1

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 90-3-0’-0.5’; .5’-1’; 1’-5’

Location:ML 90-3-5

Time:09:19 AM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 90-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053137357.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:09:22 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Corner of Jackson and 46th

2.2 Excavation Location(s)

Location::ML90-4-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780580 Longitude: -104.942520

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:3

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0 ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML90-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML90-4-5

Time:09:23 AM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML90-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053138784.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:10:46 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::84

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Corner of Jackson and 46th

2.2 Excavation Location(s)

Location::ML90-7-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780503 Longitude: -104.942295

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:1

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML90-7-0’-0.5’; .5’-1’; 1’-5’

Location:ML90-7-5

Time:10:47 AM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 90-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053139876.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 03 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:10:04 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson and 46th

2.2 Excavation Location(s)

Location::ML 90-8-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780525 Longitude: -104.942290

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:1

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:ML 90-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML 90-8-5

Time:10:05 AM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

Submit:Initiated

ML 93-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053150281.1

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:12:58 PM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::90

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson and 46th

2.2 Excavation Location(s)

Location::ML93-1-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780400 Longitude: -104.941950

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML93-1-0’-0.5’; .5’-1’; 1’-5’

Location:ML93-1-5

Time:02:01 PM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ML 93 3 5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053141556.0

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:10:32 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Email::kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location::ML-93-3-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780348 Longitude: -104.941863

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:1-2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML-90-3-0’-0.5’; .5’-1’; 1’-5’

Location:Ml-90-3-5

Time:10:49 AM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

Submit:Initiated

ML93-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053146110.2

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:11:31 AM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::Kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::86

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Jackson

2.2 Excavation Location(s)

Location::ML93-4-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780436 Longitude: -104.941701

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:1

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML93-4-0’-0.5’; .5’-1’; 1’-5’

Location:ML93-4-5

Time:12:03 PM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location:: 55 gallon drum at Vine Laboratories.

ML 93-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053150714.1

Lead Reporter: Karina Moore	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 31 May 2018	**Event Date:** 31 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 31 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:31 May 2018

1.2 Time

:02:05 PM

1.3 Monitoring Technician

Monitoring Technician Name::Karina Moore

Phone Number::720-626-8778

Email::kmoore@familyenvironmental.com

1.4 Weather

Temperature (F)::90

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson and 46th

2.2 Excavation Location(s)

Location::ML 93-8-5

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780385 Longitude: -104.941328

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

2.5 Depth to Native Material (feet)

:1

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ML 93-8-0’-0.5’; .5’-1’; 1’-5’

Location:ML 93-8-5

Time:01:21 PM

Date:31 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST26-3-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052537113.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 25 May 2018	**Event Date:** 25 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 25 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:25 May 2018

1.2 Time

:10:18 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST26-3-2

2.3 GPS or Survey Location of RHM Origination

:39.7788,-104.9593

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.6

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST26-3-0’-0.5’; .CSB-ST26-3-.5’-1’; CSB-ST26-3-1’-3’; CSB-ST26-3-3’-5’

Location:ST26-3-2

Time:08:50 AM

Date:25 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST27-6-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052341691.1

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:11:34 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST27-6-5

2.3 GPS or Survey Location of RHM Origination

:39.7801, -104.9589

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST27-6-0’-0.5’; .5’-1’; 1’-5’

Location:ST27-6-5

Time:01:55 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

Submit:Initiated

ST33-2-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052234155.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:09:29 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST 33-2-2

2.3 GPS or Survey Location of RHM Origination

:39.7799, -104.9534

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

Complete Form:Initiated

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST 33-2-0’-0.5’

Location:ST 33-2-2

Time:08:52 AM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST 33-2-0.5'-1'

Location:ST 33-2-2

Time:01:33 PM

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID: CSB-ST 33-2-1'-3'

Location:ST 33-2-2

Time:01:33 PM

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID: CSB-ST 33-2-3’-5’

Location:ST 33-2-2

Time:01:33 PM

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST47-2-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052334606.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:09:36 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST47-2-2

2.3 GPS or Survey Location of RHM Origination

:39.7812, -104.9495

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST47-2-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST47-2-2

Time:01:36 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST47-3-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052263409.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:05:36 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST47-3-2

2.3 GPS or Survey Location of RHM Origination

:39.7807, -104.9495

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.0

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST47-3-0'-0.5'

Location:ST47-3-2

Time:05:22 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST47-3-.5’-1’

Location:ST47-3-2

Time:11:47 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID:CSB-ST47-3-1’-3’

Location:ST47-3-2

Time:11:47 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID:CSB-ST47-3-3’-5’

Location:ST47-3-2

Time:11:48 AM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST50-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052335567.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:09:52 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST50-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7812, -104.9494

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.3

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST50-1-0’-0.5’; .5’-1’; 1’-5’

Location:ST50-1-5

Time:01:20 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST50-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052261373.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:05:02 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST50-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7810, -104.9492

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 14’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.7

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST50-4 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ST50-4-5

Time:03:38 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST50-4-5'-10'

Location:ST50-4-5

Time:02:07 PM

Date:22 May 2018

Media:soil

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID:CSB-ST50-4-10'-13'

Location:ST50-4-5

Time:02:09 PM

Date:22 May 2018

Media:soil

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST50-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052338697.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 23 May 2018	**Event Date:** 23 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 23 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:23 May 2018

1.2 Time

:10:44 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST50-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7812, -104.9490

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 7’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST50-5-0’-0.5’; .5’-1’; 1’-5’

Location:ST50-5-5

Time:01:14 PM

Date:23 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST50-5-5’-7'

Location:ST50-5-5

Time:01:14 PM

Date:23 May 2018

Media:soil

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST50-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052242497.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:11:48 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST50-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7811, -104.9488

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST50-8 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ST50-8-5

Time:01:30 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST52-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052240249.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:11:10 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST52-1-5

2.3 GPS or Survey Location of RHM Origination

:39.7811, -104.9486

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.8

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST52-1 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ST52-1-5

Time:03:36 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST52-3-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052239629.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:11:00 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST52-3-5

2.3 GPS or Survey Location of RHM Origination

:39.7811, -104.9484

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:1.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST52-3-0'-0.5'

Location:ST52-3-5

Time:11:26 AM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST52-3-.5'-1'

Location:ST52-3-5

Time:11:16 AM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST52-3-.5'-1'

Location:ST52-3-5

Time:11:36 AM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST52-4-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052238406.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:03:14 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling

1.6 BMPs in place/used

Description of BMPs in place::Liner Cutter

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST52-4-5

2.3 GPS or Survey Location of RHM Origination

:39.7811, -104.9483

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:4'

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.2 ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST52-4-0'-0.5'

Location:ST52-4-5

Time:01:43 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST52-4-0.5’-1’

Location:ST52-4-5

Time:01:44 PM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

:Add Another

Sample ID:CSB-ST52-4-1’-5’

Location:ST52-4-5

Time:01:48 PM

Date:22 May 2018

Media:same as above

Analysis:same as above

Laboratory Sent To:same as above

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST52-7-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052250521.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:02:02 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST52-7-5

2.3 GPS or Survey Location of RHM Origination

:39.7811, -104.9481

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 5’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST52-7 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ST52-7-5

Time:03:29 PM

Date:22 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST52-8-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052238133.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 22 May 2018	**Event Date:** 22 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 22 May 2018	**Follow Up:** 0		
KieFIT Indicator 1				

1. General Information

1.1 Date

:22 May 2018

1.2 Time

:10:35 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Steele

2.2 Excavation Location(s)

Location::ST52-8-5

2.3 GPS or Survey Location of RHM Origination

:39.7812, -104.9479

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments: Native at 4’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.9

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST52-8 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)

Location:ST52-8-5

Time:03:51 PM

Date:22 May 2018

Media:soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST56-2-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052432744.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:09:05 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST56-2-2

2.3 GPS or Survey Location of RHM Origination

2.4 Identification of Vertical Horizon

:Near Surface Soil

Attachments:



Associated by Mia Steenkamp on 08 Jun 2018

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST56-2-2-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST56-2-2

Time:07:59 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST56-4-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052449983.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 24 May 2018	**Event Date:** 24 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 24 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:24 May 2018

1.2 Time

:01:53 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Pilot Truck Stop

2.2 Excavation Location(s)

Location::ST56-4-2

2.3 GPS or Survey Location of RHM Origination

:39.7809, -104.9460

2.4 Identification of Vertical Horizon

:Near Surface Soil

Comments:Native at 2’

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.9

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST56-4-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST56-4-2

Time:11:05 AM

Date:24 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST59-1-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052946611.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:12:56 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ST59-1-2

2.3 GPS or Survey Location of RHM Origination

:39.7813,-104.9452

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST59-1-0’-0.5’; 5’-1’; 1’-3’; 3’-5’

Location:ST59-1-2

Time:12:58 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST59-3-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052946465.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:12:54 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and garfield

2.2 Excavation Location(s)

Location::ST59-3-2

2.3 GPS or Survey Location of RHM Origination

:39.7813,-104.9446

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.4

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST59-3-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST59-3-2

Time:12:55 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST60-2-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052937175.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:10:19 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::57

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and garfield

2.2 Excavation Location(s)

Location::ST60-2-2

2.3 GPS or Survey Location of RHM Origination

:39.7809 -104.9450

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

:Unsaturated Native Soil

Comments::Native at 5’

2.5 Depth to Native Material (feet)

:5

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:3.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST60-2-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST60-2-2

Time:04:15 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST60-4-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052946082.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:12:48 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and Garfield

2.2 Excavation Location(s)

Location::ST60-4-2

2.3 GPS or Survey Location of RHM Origination

:39.7809,-104.9445

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST60-4-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST60-4-2

Time:12:49 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST62-1-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052939693.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:11:01 AM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and garfield

2.2 Excavation Location(s)

Location::ST62-1-5

2.3 GPS or Survey Location of RHM Origination

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:6

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.9ppm

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST62-1-0’-0.5’; .5’-1’; 1’-5’

Location:ST62-1-5

Time:04:00 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

:Add Another

Sample ID:CSB-ST62-1-5'-7'

Location:ST62-1-5

Time:11:46 AM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST62-5-5

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018052946331.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 29 May 2018	**Event Date:** 29 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 29 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:29 May 2018

1.2 Time

:12:52 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::73

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:46th and garfield

2.2 Excavation Location(s)

Location::ST62-5-5

2.3 GPS or Survey Location of RHM Origination

:39.7810,-104.9442

2.4 Identification of Vertical Horizon

Select those that apply.

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.2

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST62-5-0’-0.5’; .5’-1’; 1’-5’

Location:ST62-5-5

Time:04:09 PM

Date:29 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST64-1-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053043870.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:12:11 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:I-70 and Jackson

2.2 Excavation Location(s)

Location::ST64-1-2

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.781397 Longitude: -104.943970

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:2.6

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST64-2-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST64-2-2

Time:12:13 PM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST64-3-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053044726.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:12:25 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location::ST64-3-2

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.781325 Longitude: -104.943436

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST64-3- 0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST64-3-2

Time:10:48 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST66-2-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053045721.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:12:42 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location::ST66-2-2

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.780739 Longitude: -104.943295

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:0.1

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST66-2-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST66-2-2

Time:11:01 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

ST67-3-2

Project: Kiewit > Infrastructure Project > Central > 26582 - 103565 - Central 70 KIC

Discipline: Environmental

ID: 2018053045179.0

Lead Reporter: Alex Becker	**Status:** Complete	**Actions:**	**Total**	**Overdue**
Started: 30 May 2018	**Event Date:** 30 May 2018		0	0
Completed: 08 Jun 2018	**Due Date:** 30 May 2018	**Follow Up:** 0		

1. General Information

1.1 Date

:30 May 2018

1.2 Time

:12:33 PM

1.3 Monitoring Technician

Monitoring Technician Name::Alex Becker

Phone Number::720-645-9808

Email::abecker@familyenvironmental.com

1.4 Weather

Temperature (F)::80

Weather::Sunny

1.5 Descriptions of Work Activities

:Direct push soil sampling.

1.6 BMPs in place/used

Description of BMPs in place::Liner cutter.

1.7 Photos

Please attach photos (using the attachment link on the right) that illustrate work being performed.

2. RHM Origination

2.1 Property Description (area material was generated)

:Jackson

2.2 Excavation Location(s)

Location:: ST67-3-2

2.3 GPS or Survey Location of RHM Origination

GPS Coordinates:Latitude: 39.781236 Longitude: -104.943062

2.4 Identification of Vertical Horizon

Select those that apply.

:Asphalt and Concrete Surfacing

:Near Surface Soil

:Shallow Unsaturated Soil

2.5 Depth to Native Material (feet)

:2

3. Field Screening/Monitoring

3.1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

:No

3.2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

:No

3.3 Is there a presence of a distinguishable odor with the disturbed material?

:No

3.4 Are there discreet layers in the soil cross section that generally appear out of place?

:No

3.5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

:No

3.6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

:Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right:4.5

3.7 Additional Screening Comments/Observations:

3.8 If you have answered NO to all questions in this section, please submit the completed report now.

4. Analytical

4.1 Were analytical samples taken?

:Yes

If analytical samples were taken, attach a copy of the results using the attachment tab to the right.

4.2 Please fill out the information below for each sample location.

Sample ID:CSB-ST67-3-0’-0.5’; .5’-1’; 1’-3’; 3’-5’

Location:ST67-3-2

Time:10:30 AM

Date:30 May 2018

Media:Soil

Analysis:PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To:SGS North America

4.3 Additional Comments

4.4 Is additional sampling required prior to disposal?

:No

5. Disposition Information

5.1 Where was the soil disposed?

:Offsite

If disposed of offsite, please attach a copy of the manifest using the attachment tab to the right.

Description of the offsite disposal location::55 gallon drum at Vine Laboratories.

5/11/18

call David w/ Vine Drilling
for Nathan's # 720-355-6256
0900 Marisa - onsite performing soil sampling

5/14/18

0700 Alex Decker w/ Family Environmental
onsite to perform soil sampling w/
Nathan Branch w/ Vine Environmental
for intent of Hole # I-20
Log at GPS and depth to native

0734 ST-28-5
39.779~~89~~, -104.95~~90~~66
202 041
Native sand @ 7'

0800 ST-28-8
39.779204, -104.956924
Native sand @ 3'

0820 ST-28-6
39.779501, -104.956864
Native sand @ 4'

Rite in the Rain

5/14/18

		ED
0844	ML-36-5	25'
	39.780083, -104.958546	
	Native sand @ 3'	
	ML-36-2	25'
0857	39.780228, -104.958709	
	Native sand @ 3'	
0908	ML-35-6	25'
	39.780432, -104.958905	
	Native sand @ 2'	
0922	ML-35-8	24'
	39.780425, -104.958719	
	Native sand @ 2'	
0942	ML-36-6, 39.780319, -104.958560	
	Native sand @ 2'	
0957	Hand sample ST-27-1	
1015	~~ML~~ ST-27-2	
	39.780263, -104.959122	
	Native sand @ 3'	
1044	ML-35-2	
	see Google Maps	
	39.780420, -104.958959 Native @ 3'	
1110	~~ST-34-2~~ → ST-23-4	
	39.780903, -104.959152	
	Native @ 3'	

5/14/18

ML-41-8-

1145 - ~~ST~~ ML-41-1

39.780270, -104.957362

refusal @ 5' not sampled

lightning shut-down

1220 off site

PID

5/15/18

0700 Alex Becker w/ Family Environmental onsite to perform soil sampling w/ Nathan Branch w/ Vine Environmental Laboratory for hiemit at Columbus + I-70

Log GPS and depth to Native + PID

0722	ML-41-1	< 2.0
	Native sand @ 8'	
0832	ML-41-8	< 2.0
	39.780226, -104.956670	
	Native sand @ 6'	
0905	ML-39-1	< 2.0
	39.780264 -104.958111	
	Native sand @ 7'	
0943	ML-39-5	< 2.0
	39.780250, -104.957680	

Rite in the Rain

5/15/18

PID (ppm)

0954 ML-41-4
-39.7800~~85~~ 2750, -104.9069920
- Native sand @ 5'
<2.0

1011 ML-41-7
39.7800850 -104.9568850
Native sand @ 5'
<2.0

1027 ML-41-3
- 39.7800500, -104.9572850
- Native sand @ 4'
1.8

1030 ML-39-8
- 39.7800520, -104.9574210
- Native sand @ 5'
1.7

1058 ML-39-~~6~~ 4
- 39.7800623, -104.9578378
- Native sand @ 7'
0.9

1118 ST30-~~7~~-1
-39.7799196, -104.9579779
- Native sand @ 4'
1.2

1238 ML-37-1
39.7805812, -104.9586435
- Native sand @ 4'
1.7

1249 ML-37-3
concrete refusal no sample

5/15/18 37

PID (ppm)

1313 ML-~~35~~-85
- 39.7804452, -104.9584876
- Native sand @ 5'
2.0

1356 ML-37-9
- 39.7803821, -104.9581556
- Native sand @ 4'

1430 ML-37-3 redo
-39.7803190, -104.9585600
-"Hard Dig" shallow sample only refusal at 3', gasoline odor
1171

1456 ST-28-1
-39.7795153, -104.9591846
- Native sand @ 5'
0.1

1519 ML34-6
39.7802906, -104.9595692
- Native sand @ 3'
19.7

1534 ML-38-2
-39.7804558, -104.9580655
- Native sand @ 4'
17.1

1558 ML-38-8
-39.7804024, -104.9577298
- Native sand @ 5'
10.9

ML 38-6
1604 -39.7803100, -104.9577823
- Native sand @ 4'
7.2

Rite in the Rain

5/15/18 (PID) ppm

1624 ML-37-7 2.4
39.7806490, -104.9582385
Native sand @ 5'
1640 off site

5/16/18

0700 on site Alex Bachus w/ family Tim w/ Nathan Branch w/ Vibe Laboratories at I-10 + Columbine
0730 hand auger ST27-1-5 2.1
-39.7800605, -104.9598697
0800 ST30-3 1.7
39.78~~0228~~98345, -104.957~~4516~~0911
Native sand @ 2'
0828 MC-40-3 2.4
39.7803228, -104.9574516
Native sand @ 3'
0842 ML-40-5 1.7
39.7804403, -104.9573530
Native sand @ 3'
0900 ML-40-9 1.2
39.7803179, -104.9572491
Native sand @ 2'

5/16/18 PID (ppm)

0910 ML 40-~~7~~1 1.4
39.7806485, -104.9574591
Native sand @ 8'
0935 ML-40-7-5 1.7
39.7807088, -104.9571961
Native sand @ 9'
ML-38-4-5 west hole on standby
1054 ML-49-1-5 0.3
39.7802613, -104.9549098
Native sand @ 4'
1100 ML-46-C-5 0.0
39.7802388, -104.9551254
Native sand @ 4'
1108 ML-46-2-5 0.0
39.7802404, -104.9555764
Native sand @ 3'
1122 ML-38-4-5 0.3
39.780643, -104.957817 (from T. Sellers)
Native sand @ 4'
1217 ML-51-4-5 0.5
39.7802584, -104.9537025
Native sand @ 6'
1240 ML-51-1-5 0.0
39.7802447, -104.9540438
Native sand @ 6'

Rite in the Rain

5/16/18

		PID (ppm)
1251	ML51-J-5	0.3
	39.7801084, -104.95539912	
	Native sand @ 7'	
	ML-49-8-5	
1311	ML 49-8-5, -104.95543023	0.7
	39.7800867,	
	Native sand @ 7'	
1340	ML-49-4-5	0.8
	39.780149, -104.954721	
	Native sand @ 4'	
1406	ML-46-9-5	1.2
	39.780108 -104.95504?	
	Native sand @ 4	
1417	ML-46-5-5	2.2
	39.7800404 -104.95542?	
	Native sand @ 12'	
1458	ML-44-9-5	1.5
	39.7800734, -104.95572?	
	Native sand @ 4'	
1516	ML-44-6-5	2.5
	39.7800726, -104.95600?	
	Native sand @ 8'	

5/16/18

		PID (ppm)
1532	ML 44-3-5	1.0
	39.7802395, -104.9562714	
	Native sand @ 4.5'	
1548	ML-44-7-5	0.1
	39.7802692, -104.9559521	
	Native sand @ 8'	
1620	Off site	

5/17/18

~~0500~~ 0730 Alex Decker w/ Family Environmental on site to perform direct push soil sampling w/ Nathan Branch w/ Vine Laboratories for Kiewit at Thompson Ct & I-70

Log depth to Native, GPS & PID:

0817	ML-49-5-5	2.1
	39.7802530, -104.9545467	
	Native sand @ 4'	
0918	ML-51-7-5	1.1
	39.7801, -104.9537	
	Native sand @ 6'	
0947	ML-44-2-5	2.8
	39.7801, -104.9563	
	Native sand @ 6'	

Rite in the Rain

5/17/18

		PID (ppm)
1005	ST 30-4-2	3.7
	39.7801, -104.9563	
	native sand @ 9'	
1108	ML-62-6-5	1.9
	39.7806, -104.9500	
	native sand @ 3'	
1128	ML-60-9-5	1.3
	39.7800, -104.9508	
1143	native sand @ 3'	
	ML-60-3-5	3.4
	39.7800, -104.9511	
	native sand @ 4'	
1206	ML-59-6-5	1.2
	39.7801, -104.9518	
	native sand @ 4'	
1225	ML-62-7-5	1.4
	39.7803, -104.9502	
	native clayey sand @ 2'	
1240	ML-62-2-5	1.6
	39.7803, -104.9506	
	native clayey sand @ 2'	
1243	ML 60-5-5	0.2
	39.7803, -104.9510	
	native clayey sad @ 1'	

5/17/18

		PID (ppm)
1323	ST 09-1-2	1.9
	39.7811, -104.9566	
	native @ 7'	
1402	ML-59-8-5	0.2
	39.7803, -104.9512	
	native @ 1'	
1410	ML-59-2-5	0.8
	39.7802, -104.9516	
	native @ 1'	
1427	ML-59-4-5	1.2
	39.7803, -104.9514	
	native @ 1'	
1515	off site	

5/18/18

0730 on site: Alex Becker w/ Family Environmental to perform direct push soil sampling w/ Nathan Brandt w/ Vine Laboratories for client at E-70 & Steele St

0800 rig down, off site

Rite in the Rain

5/21/18

PID (ppm)

0705 onsite, Alex Decker w/ Family Environmental w/ Nathan Brack w/ Vine Laboratories for Linework at I-70 & Steele St.

0900 ML-60-7-5 — 1.0
39.7803, -104.9511
native @ 1'

0912 ML-58-7-5 — 2.6
39.7804, -104.9513
native @ 1'

0920 ML-61-2-5 — 3.2
39.7805, -104.9510
native @ 1'

0931 ML-60-7-5 — 2.5
39.7804, -104.9508
native @ 1'

1000 ML-62-4-7 — 2.7
39.7803, -104.9505
native @ 1'

1012 ML-61-6-5 — 1.9
39.7805, -104.9503
native

1019 ML-61-7-5 — 1.5
39.7806, -104.9508
native @ 1'

5/21/18

PID (ppm)

1028 ~~ST 56-3-2~~ ML-58-8-5 — 1.8
39.7806, -104.9510
native @ 1'

1040 ML-61-8-5 — 2.1
39.7806, -104.9504
native @ 1'

1116 ML 67-6-5 — 1.4
39.7806, -104.9492
native @ 9'

1200 ST 55-2-2 — 2.0
39.7808, -104.9486
native @ 7'

1230 ML-67-9-5
native. Lit concrete, on hold until relocated

1309 ML-67-8-5
jammed liner due to concrete, on hold until relocated
ML-72-2-5 - on hold

1418
native @ (on hold)

Rite in the Rain

5/21/18

		PID (ppm)
1428	ML-72-4-5	2.1
	39.7807, -104.9475	
	native @ 4'	
1438	ML-72-2-5	1.4
	39.7805, -104.9478	
	native @ 4'	
1450	ML-72-6-5	1.1
	39.7804, -104.9475	
~~1470~~	native @ 4'	
1454	ML-72-8-5	1.7
	39.7805, -104.9475	
	native @ 4'	
1531	ML-74-6-5	6.2
	39.7803, -104.9473	
	native @ 4'	
1540	ML-74-4-5	5.2
	39.7806, -104.9472	
	native @ 4'	
1547	ML-74-2-5	1.7
	39.7807, -104.9474	
	native @ 4'	
1607	ST54-4-2	1.6
	39.7810, -104.9474	
	native @ 4'	

5/21/18

		PID (ppm)
1630	ST54-1-5	1.6
	39.7810, -104.9478	
	native @ 4	
1645	ST-53-4-2	1.2
	~~39~~ 7808, -104.9478	
	native @ 4'	
1710	OHSite	

5/22/18

0700 on site, Alex Becker w/ Family Environmental w/ Nathan Brach w/ Vine Laboratories for Kiewit at I-70 + Steele St.

0732	ML54-7-5	1.9
	39.7803, -104.9527	
0746	native @ 3	
	ML55-6-5	3.1
	39.7807, -104.9526	
	native @ 3	
0823	ML57-3-3	0.2
	39.7803, -104.9522	
	native @ 4'	
0828	ST33-2-2	3.0
	39.7799, -104.9534	
	native @ 4'	

Rite in the Rain

5/22/18

PID (ppm)

0846 ML 55-4-5 — 3.1
39.7806, -104.9526
native @ 4'

0901 ML-56-6-5 — 1.7
39.7802, -104.9520
native @ 2'

0930 ST 52-8-5 (at Pilot) — 2.0
39.7812, -104.9479
native @ 4'

ST 52-4-5

0952 39.7811, -104.9482
on hold due to pavement

ST 52-3-5 — 1.4
39.7811, -104.9484
native @ 5'

1018 ST-52-1-5 — 4.8
39.7811, -104.9480
native @ 5'

1039 ST-50-8-5 — 2.1
39.7811, -104.9488

native @ 5'

1248 ST-52-7-5 — 4.1
39.7811, -104.9481
native @ 5'

5/22/18

PID (ppm)

1320 ML 71-6-5 — 0.0
39.7806, -104.9480
native @ 5'

1338 ML-71-2-5 — 0.0
39.7806, -104.9481
native @ 7'

1416 ML-67-9-5 — 0.6
39.7807. 104.9484
native @ 5'

1428 ML-67-8-5 — 0.1
39.7807, -104.9483
native @ 5'

ML-71-8-5

1443 39.7805 - 104.9481 — ON HOLD
native @

1514 ML-52.4-5 — 0.2
39.7811, -104.9483
native @ 4'

1532 ST 50-4-5 — 1.7
39.7810, -104.9492
native @ 14'

ST 47-3-2 — 2.0

1605 39.7807, -104.9495
native @ 5'

1631 off site

Rite in the Rain

5/23/18

PID (ppm)

0645 on site, Alex Decker w/ Family Environmental w/ Nathan Brack w/ Vine Laboratories for Gremit at Pilot Truck Stop

0900 Site wide Health & Safety Meeting

0752 ML67-3-5 (24' TD) 1.1
39.7806, -104.9491
native @ 9'

0823 ST47-2-2 0.5
39.7812, -104.9495
native @ 4'

0840 ST50-1-5 2.3
39.7812, -104.9494
native @ 4'

0916 ML-71-8-5 1.7
39.7805, -104.9481
native @ 5'

0942 ~~ML~~ ST-50-5-5 1.4
39.7812, -104.9490
native @ 7'

1007 ML-~~70-4-8~~-74-8-5 3.7
39.7804 -104.9471
native @ 2'

5/23/18

PID (ppm)

1036 ST27-6-5 0.0
39.7801, -104.9589
native @ 2'

1123 ~~ST~~ ML-53-3-5 2.2
39.7804, -104.9533
native @ 2'

1134 ML-53-5-5 4.0
39.7804 -104.9531
native @ 2'

1148 ML-52-8-5 0.6
39.7804, -104.9535
native @ 2'

1158 ML-52-2-5 1.4
39.7805, -104.9538
native @ 2'

1247 ML-52-~~8~~-5 2.0
39.7806, -104.9535
native @ 2'

1351 ML-52-8-5 0.7
native @ 2'
39.7805, -104.9535

1418 ML-~~53-4-7~~ 57-7-5 4.4
39.7806, -104.9517
native @ 9'

Rite in the Rain

5/23/18

		PID (ppm)
1439	ML-58-3-5	1.6
	39.7804, -104.9547	
	native @ 9'	
1524	ML-58-4-5	1.0
	39.7807, -104.9514	
	native @ 9'	
1541	ML-53-1-5	0.0
	39.7807, -104.9532	
	native @ 4'	
1558	ML-55-8-5	0.0
	39.7806, -104.9525	
	native @ 2'	
1615	ML-57-1-5	1.4
	39.7807, -104.9522	
	native @ 5'	
1635	OH site	

5/24/18

0700	AB onsite w/ Nathan Brock w/ Vine Laboratories at Pilot Truck Stop	
0741	ML-76-1-5	2.5
	39.7808, -104.9470	
	native 2'	

5/24/18

		PID (ppm)
0757	ST 56-2-2 on HOLD (complete.	
	39.7809, -104.9470	
	native @	
0815	ML-77-2-5	3.1
	39.7804, -104.9469	
	native @ 4'	
0826	ML-76-2-5	3.0
	39.7806, -104.9469	
	native @ 4'	
0900	ML 77-6-5	4.2
	39.7804, -104.9466	
	native @ 4'	
0949	ML-77-3-5	4.8
	39.7805, -104.9466	
	native @ 4'	
1014	ML-76-5-5	5.7
	39.7807, -104.9462	
	native @ 4'	
	ML-76-6-5	3.3
1041	~~ML~~ 39.7807, -104.9462	
	native @ 2'	
1055	ML-79-2-5	0.9
	39.7808, -104.9459	
	native @ 2'	

Rite in the Rain

5/24/18

		PID (ppm)
1105	ST 56-4-2 39.7809, -104.9460 native @ 2'	3.7
1119	ML-79-4-5 39.7805, -104.9459 native @ 10	3.8
1217	ML-77-7-5 39.7805, -104.9464 native @ 2'	2.6
1224	ML-76-6-5 39.7807, -104.9464 native @ 2'	2.3
1318	ML-77-9-5 39.7805, -104.9460 native @ 10', wood	5.9
1317	ML-79-9-5 39.7804, -104.9462 native @ 5'	4.2
1430	~~ML-57-3-5~~ ML-57-5-5 39.7804, -104.9520 native @ 2'	2.5
1453	ML-~~57-8-5~~ 51-8-5 39.7802, 104.9534 native @ 7'	2.7

5/24/18

		PID (ppm)
1504	ML 57-7-5 39.7805, -104.9528 native @ 2'	2.5
1519	ML 55-2-5 39.7804, -104.9527 native @ 2'	3.0
1540	off site	

5/25/18

0710	on site, A. Becker Family Environmental w/ Nathan w/ Vine Laboratories at Pilot Truck Stop	
0752	ML-83-5-5 39.7803, -104.9448 native @ 2'	2.7
0807	ML-83-1-5 39.7804, -104.9450 native 2'	3.5
0815	ML-81-8-5 39.7804, -104.9458 native 2'	4.5
0850	ST-26-3-2 39.7188, -104.8593 native @ 2'	1.6

Rite in the Rain

	5/25/18	PID (ppm)
0930	ML-36-9-5	3.5
	39.7800, -104.9587	
	hand auger to 1'	
1007	ML-53-9-5	4.2
	39.7802, -104.9528	
	native @ 2'	
1042	ML-4-5	6.8
	39.7802, -104.9481	
	native @ 3'	
1058	ML-68-6-5	2.3
	39.7802, -104.9485	
	native @ 3'	
1105	ML-68-9-5	1.0
	39.7802, -104.9489	
	native @ 3'	
1113	ML-68-3-5	1.2
	39.7802, -104.9492	
	native @ 4'	
1142	ML 75-7-5	3.0
	39.7803, -104.9466	
	native @ 7'	
1171	ML-73-3-5	6.4
	39.7803, -104.9477	
	native @ 3'	

	5/25/18	PID (ppm)
1155	ML-73-7-5	1.8
	39.7802, -104.9474	
	native @ 3'	
1203	ML-75-3-5	1.3
	39.7803 -104.9471	
	native @ 2'	
1246	ML-78-2-5	1.6
	39.7798, -104.9473	
	native @ 2'	
	ML-78-6-5	2.4
1307	39.7798, -104.9468	
	native @ 2'	
1315	offsite	

5/29/18

0700 on site, A. Decker w/ Family Environmental w/ Nathan w/ Vine Laboratories at 46th & Garfield (I-70)

0726 ML-81-4-5 1.4

0741 native @ 2'

ML-81-2-5 3.9

39.7803, -104.9453

native @ 2', wood, styrofoam

Rite in the Rain

5/29/18

		PID (ppm)
0756	ML 80-2-5	5.7
	39.7804, -104.9405	
	native @ 4'	
0809	ML 80-4-5	5.1
	39.7806, -104.9454	
	native @ 7'	
0827	ML-80-3-5	3.6
	39.7805, -104.9454	
	native @ 4'	
0851	ML-80-7-5	4.1
	39.7806, -104.9451	
	native @ 7	
0925	ML-82-1-5	4.1
	39.7806, -104.9451	
	native @ 5'	
0940	ST-60-2-2	3.2
	39.7809, -104.9446	
	native @ 5'	
1000	ST-62-1-5	2.9
	O 39.7810, -104.9450	
	native @ 6'	
1021	ST-62-3-5	5.4
	O 39.7807, -104.9446	
	native @ 4'	

5/29/18

		PID (ppm)
1032	ST-60-4-2	2.9
	O 39.7809, -104.9445	
	native @ 2'	
1046	ST-62-5-5	2.2
	O 39.7810, -104.9442	
	native 2'	
1104	ST-59-7-2	3.4
	O 39.7813, -104.9446	
	native 2'	
1123	ST-59-1-2	4.5
	O 39.7813, -104.9452	
	native 2'	
1209	ML-82-6-7 TD-24'	2.8 ✓
	39.7805, -104.9448	
	native @ 17'	
	ML-84-6-5	5.4 ✓
1300	39.7807, -104.9447	
	native @ 9'	
1320	ML-82-5-5	0.9 ✓
	O 39.7809, -104.9449	
	native @ 4'	
1341	ML-84-8-5	1.0
	O 39.7807, -104.9442	
	native @ 17'	

Rite in the Rain

5/29/18

		PID (ppm)
1457	ML-84-J-5	3.4 ✓
	39.7807, -104.9440	
	native @ 17'	
	ML-~~84-5~~ 82-9-5	1.1
1543	39.7805, -104.9444	
	native @ 18'	
1600	ML-83-7-5	1.2
	39.7805, -104.9448	
	native @ 2'	
1636	ML-84-6-5	1.2
	39.7805, -104.9444	
	native @ 2'	
1750	offsite	

5/30/18

0700	on site, MJ w/ family Environmental w/ Nathan w/ the Laboratories	
0730	ML-82-4-5	5.4
	native @ 2'	
0749	ML 80-8-5	8.1
	native @ 2'	

5/30/18 Jackson St

		PID (ppm)
0822	ML-86-2-6	8.5 ✓
	native @ 2'	
0836	ML-86-6-6	4.0 ✓
	native	
	fetusal @ 15' (cotton	
1017	ST-~~79~~ 64-1-2	2.6 ✓
	native @ 2'	
1030	ST-~~61-2~~ 64-3-2	4.5 ✓
	native @ 2'	
1048	ST 64-3-2	0.2 ✓
	native @ 2'	
1101	ST 66-2-2	0.1 ✓
	native @ 2'	
1118	ML-88-7-5	6.7 ✓
	native @ 2'	

Rite in the Rain

5/30/18 Jackson St

1211	ML-88-3-5		7.2 ✓
	native 7'		
1234	ML-86-8-5	ox. 29'	18.3 ✓
	native -NA refusal @ 26'		
1347	ML-86-6-5		5.4 ✓
	native @ 4'		
1410	ML-88-2-5		6.2
	native refusal @ 26'		
1521	ST66-2-2		4.7
	hand dig		
1524	ML-88-4-5		25.3
	refusal		
1620	ML-57-9-5		1.3
	hand dig		

6/4/18 Jackson St.

0700 on site, A. Decker w/ family
Environmental w/ Nathan Breed w/
Vine Laboratories at Pilot Truck
Stop meeting w/ Ivanhoe

0757	ML-68-7-5 native @ 5'	0.0 ✓
0818	ML-69-2-5 native @ 6'	0.0 ✓
0846	ML-69-4-5 native @ 5'	~~0.0~~ 15.2 ✓
0877	ML-69-8-5 native @ 6'	22.6 ✓
0924	ML-79-7-5 native @ 9	23.4 ✓
0957	ST63-1-2 native @ 4'	1.5 ✓
1014	ST63-7-2 native @ 2'	16.5 ✓
1033	ST61-7-2 fill	9.7
1100	ST61-1-2 native @ 5'	7.0
1108	ST-58-4-2 native @ 4'	5.8

Rite in the Rain

CONTENTS

PAGE	REFERENCE	DATE
5/31/18	Jackson	
7:40	MK 86-5	
	Native at 2ft	
8:55	ST 69-1-2	
	Native 1-2ft	
~~90-3-5~~		
9:05	ST-67-4-2	
	Native 1-2 ft	
9:15	ML-90-3-5	
	Native @ 1 ft	

6.5.31.18

9:27 ML-90-4-5

9:32 ~~ML~~ 3 ft Native

~~9:32 ML-~~

9:50 ML-90-7.5

Depth at 1ft

10:10 ML-90-8.5

Dept at 1 ft

93

10:20 ML-~~90~~-3

1-2 ft Native

~~10:40~~ ML-93-4-5

11:30

1 ft

Rite in the Rain

ML-93-1-5
12:05

asphalt base
from 1-2 ft
thin native

ML-93-8.5
1:05
native at 1

~~ST-77-4-2~~

6-1-18

ST 69.3.2 2 ppm
7.55 depth @ 1 ft
0 ppm

~~ST 63~~
ST-77-4-2 0 ppm
8:15 Depth 1 ft

ML-88-9.5 0 ppm
@ 1 ft
8:48

ST-67-1-2 0 ppm
9:15 @ 1 ft

Rite in the Rain

Monitoring Technician Log

ID: 2018062045466.0

Title:	ST101-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:18 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

12:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST101-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779175@-104.940080

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F736D33D-670E-4C27-8E7D-69E630E250F9.jpg	6/20/2018 12:38:10 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST101-3-0' - 0.5'
		Location ST101-3-5
		Time 01:32 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST101-3-0.5' - 1'
		Location ST101-3-5
		Time 01:32 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST101-3-1' - 5'
		Location ST101-3-5

Time 01:32 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:18 PM

Appendix: Attachments

Attachment #1
IMG_F736D33D-670E-4C27-8E7D-69E630E250F9.jpg



Monitoring Technician Log

ID: 2018060536965.2

Title:	ML54-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:19 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

09:16 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: Moore@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

On median, Corner of E. Fillmore and 46th

2 Excavation Location(s)

Location: ML54-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780115@-104.953279

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E93D0978-9AC6-4F19-B63C-877611A9B12A.jpg	6/5/2018 10:16:40 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
		4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
		No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
		Yes
		If yes, please explain further Asphalt at 3.5’
3	Is there a presence of a distinguishable odor with the disturbed material?	
		No
4	Are there discreet layers in the soil cross section that generally appear out of place?	
		No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
		No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 26.6 ppm VOCs present

4 Analytical

1	Were analytical samples taken?	
		Yes
2	Please fill out the information below for each sample location.	
		Sample ID CSB-ML54-2-0’-0.5’; .5’-1’; 1’-5’
		Location ML54-2-5
		Time 10:17 AM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?	
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?	
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 4:19 PM

Appendix: Attachments

Attachment #1
IMG_E93D0978-9AC6-4F19-B63C-877611A9B12A.jpg



Monitoring Technician Log

ID: 2018060751253.0

Title:	ML50-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:22 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

01:14 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 81

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Thompson and 46th (field)

2 Excavation Location(s)

Location: ML50-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780275@-104.954386

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A70979D0-726A-4CEF-90BB-030B028D0B7A.jpg	6/7/2018 2:15:05 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML50-3 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML50-3-5
		Time 05:22 PM
		Date 06/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:22 PM

Appendix: Attachments

Attachment #1
IMG_A70979D0-726A-4CEF-90BB-030B028D0B7A.jpg



Monitoring Technician Log

ID: 2018060536714.0

Title:	ML54-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:57 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

09:55 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

On Median, 46th and Fillmore

2 Excavation Location(s)

Location: ML54-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780057@-104.952583

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D6849D36-D848-4780-B4C9-741227617390.jpg	6/5/2018 10:13:57 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	1	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 21.3 ppm VOC	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML54-9-0’-0.5’	
	Location ML54-9-5	
	Time 10:01 AM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ML54-9-.5’-1’	
	Location ML54-9-5	
	Time 10:07 AM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Add Another

Sample ID CSB-ML54-9-1'-5'

Location ML54-9-5

Time 10:07 AM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:57 PM

Appendix: Attachments

Attachment #1
IMG_D6849D36-D848-4780-B4C9-741227617390.jpg



Monitoring Technician Log

ID: 2018062148359.0

Title:	EN-20-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:36 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

01:26 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N stapleton

2 Excavation Location(s)

Location: EN20-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780390@-104.936683

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_70029FF3-95B6-481C-BC8A-F09D72D37EC7.jpg	6/21/2018 1:26:27 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN-20-0'-3'
		Location EN-20-3
		Time 12:59 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:36 PM

Appendix: Attachments

Attachment #1
IMG_70029FF3-95B6-481C-BC8A-F09D72D37EC7.jpg



Monitoring Technician Log

ID: 2018061435977.0

Title:	ML99-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:17 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:59 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274

2 Excavation Location(s)

Location: ML99-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780419@-104.939899

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_ED8D8528-938D-48AC-B060-6F9AAF62D472.jpg	6/14/2018 10:12:01 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML99-4-0' - 0.5'
		Location ML99-4-5
		Time 09:00 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-4-0.5' - 1'
		Location ML99-4-5
		Time 09:00 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-4-1' - 5'
		Location ML99-4-5

Time 09:00 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:17 PM

Appendix: Attachments

Attachment #1
IMG_ED8D8528-938D-48AC-B060-6F9AAF62D472.jpg



Monitoring Technician Log

ID: 2018061138557.0

Title:	ML63-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:52 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

09:42 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 67

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and Steele. West field.

2 Excavation Location(s)

Location: ML63-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780406@-104.950133

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8784DB23-9D29-43F9-832C-8C96ED8BACAF.jpg	6/11/2018 10:43:25 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML63-6-0’-0.5’; .5’-1’; 1’-5’
		Location ML63-6-5
		Time 10:44 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:52 PM

Appendix: Attachments

Attachment #1
IMG_8784DB23-9D29-43F9-832C-8C96ED8BACAF.jpg



Monitoring Technician Log

ID: 2018060433165.0

Title:	ML 69-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:10 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

09:12 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot Truck Stop

2 Excavation Location(s)

Location: ML69-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780417@-104.948616

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

6

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML69-2-0'-0.5'; .5'-1'; 1'-5'
	Location ML69-2-5
	Time 08:14 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ML69-2-5'-7'
	Location ML69-2-5
	Time 08:26 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:10 PM

Monitoring Technician Log

ID: 2018061148669.0

Title:	ST32-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:45 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

01:31 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Clayton st. Road based. Near Vasquez Blvd

2 Excavation Location(s)

Location: ST32-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780782@-104.954174

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E7CD5388-9AA3-4D0C-B3B0-55996741C0BA.jpg	6/11/2018 1:31:45 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	1	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.2	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID N/a	
	Location N/a	
	Time 01:32 PM	
	Date 06/11/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST32-1- 0’-0.5’; .5’-1’; 1’-3’	
	Location ST32-1-2	
	Time 01:39 PM	
	Date 06/11/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:45 PM

Appendix: Attachments

Attachment #1
IMG_E7CD5388-9AA3-4D0C-B3B0-55996741C0BA.jpg



Monitoring Technician Log

ID: 2018060136998.0

Title:	ST 69-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:43 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

10:16 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Corner of E. Jackson and 46th. In Building driveway, inside fence

2 Excavation Location(s)

Location: ST69-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780640@-104.942519

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID N/a
	Location N/a
	Time 10:17 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB- ST69-1 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST 69-1-2
	Time 09:20 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 2:43 PM

Monitoring Technician Log

ID: 2018060148900.0

Title:	ML 83-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:06 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

01:35 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (on median)

2 Excavation Location(s)

Location: ML-83-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780064@-104.945035

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	Yes	
	If yes, please explain further At 1ft approx 1ft asphalt	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID ML 83-3 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML 83-3-5	
	Time 12:37 PM	
	Date 06/01/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID 2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’	
	Time 02:55 PM	
	Date 06/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 2:56 PM

Monitoring Technician Log

ID: 2018062151970.0

Title:	EN-14-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:36 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

02:26 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN14-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780354@-104.937464

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_846E8639-476F-456E-883E-01791D1EE6FA.jpg	6/21/2018 2:28:11 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN14-0'-3'
		Location EN14-3
		Time 01:27 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:36 PM

Appendix: Attachments

Attachment #1
IMG_846E8639-476F-456E-883E-01791D1EE6FA.jpg



Monitoring Technician Log

ID: 2018060656947.0

Title:	ST38-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:45 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

03:49 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Hand auger

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST38-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 38.7809@-104.9505

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ST38-9 (1’ intervals including 0’-0.5’; .5’-1’)	
	Location ST38-9-5	
	Time 03:50 PM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:45 PM	

Monitoring Technician Log

ID: 2018060145094.0

Title:	ML 68-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:46 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

11:31 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot truck stop. Southwest parking lot.

2 Excavation Location(s)

Location: ML 68-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780545@-104.949084

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4 ft

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	Yes
	If yes, please explain further Asphalt base at 4 ft. Approximately 1/2 inch thick
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML-86-1 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML-68-1-5
	Time 12:34 PM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:39 PM

Monitoring Technician Log

ID: 2018060153720.0

Title:	ML 73-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:48 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

02:27 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (on median)

2 Excavation Location(s)

Location: ML 73-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780007@-104.947582

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Asphalt to one foot then native

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID ML 73-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML 73-6-5	
	Time 02:55 PM	
	Date 06/01/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:48 PM	

Monitoring Technician Log

ID: 2018061152673.0

Title:	ST29-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:55 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

02:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Columbine

2 Excavation Location(s)

Location: ST29-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780753@-104.957142

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_25309D13-C813-4DC3-BB1F-346DB0688F93.jpg	6/11/2018 2:38:50 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	4	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.1	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ST29-3 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’)	
	Location ST29-3-2	
	Time 01:41 PM	
	Date 06/11/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
3	Additional Comments	
	TD 1'	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:55 PM

Appendix: Attachments

Attachment #1
IMG_25309D13-C813-4DC3-BB1F-346DB0688F93.jpg



Monitoring Technician Log

ID: 2018061459452.0

Title:	ST101-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:17 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

03:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 85

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

East on ramp to 70 east. South side

2 Excavation Location(s)

Location: ST101-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778970@-104.939808

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_89ACE5A3-191D-4104-8231-5731039EF9DF.jpg	6/14/2018 4:31:54 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB-ST101-9 - 0' - 0.5'
		Location ST101-9-5
		Time 03:32 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST101-9- 0.5' - 1'
		Location ST101-9-5
		Time 03:32 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST101-9- 1' - 5'
		Location ST101-9-5

Time 03:32 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 10

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:17 PM

Appendix: Attachments

Attachment #1
IMG_89ACE5A3-191D-4104-8231-5731039EF9DF.jpg



Monitoring Technician Log

ID: 2018061147730.0

Title:	ML50-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:50 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

12:24 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Clayton st and Vasquez BLvd. Property front lawn

2 Excavation Location(s)

Location: ML50-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780643@-104.954055

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_23DE7230-13FB-4C5B-9435-C4116EE0C5AE.jpg	6/11/2018 1:21:03 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML50-7-0'-0.5'; .5'-1'; 1'-5'
		Location ML50-7-5
		Time 01:22 PM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:50 PM

Appendix: Attachments

Attachment #1
IMG_23DE7230-13FB-4C5B-9435-C4116EE0C5AE.jpg



Monitoring Technician Log

ID: 2018062148559.0

Title:	EN-24-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:33 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

01:29 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN-24-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780392@-104.936303

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0A057A70-4074-4A05-BEB3-4798C021F30C.jpg	6/21/2018 1:29:47 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN-24-0'-3'
		Location EN-24-3
		Time 01:12 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:33 PM

Appendix: Attachments

Attachment #1
IMG_0A057A70-4074-4A05-BEB3-4798C021F30C.jpg



Monitoring Technician Log

ID: 2018060734689.0

Title:	ST39-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:13 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

08:38 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST39-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781344@-104.950373

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_990CF79C-FE29-40A2-95AD-EC00DB6C6978.jpg	6/7/2018 9:39:13 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

6

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 11.3

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST39-9-0’-0.5’
	Location ST39-9-5
	Time 08:43 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST39-9-.5’-1’
	Location ST39-9-5
	Time 08:45 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST39-9-1’-5’
	Location ST39-9-5

Time 08:45 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST39-9-5’-6'

Location ST39-9-5

Time 05:12 PM

Date 06/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:13 PM

Appendix: Attachments

Attachment #1
IMG_990CF79C-FE29-40A2-95AD-EC00DB6C6978.jpg



Monitoring Technician Log

ID: 2018062239417.0

Title:	EN34-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:40 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

09:56 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton Dr

2 Excavation Location(s)

Location: EN34-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780407@-104.934992

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6B5B533B-2D43-45A4-BEE7-CDE041E6DF74.jpg	6/22/2018 10:57:41 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.9 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN34-0'-3'
		Location EN34-3
		Time 11:11 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:40 PM

Appendix: Attachments

Attachment #1
IMG_6B5B533B-2D43-45A4-BEE7-CDE041E6DF74.jpg



Monitoring Technician Log

ID: 2018060135779.0

Title:	ML 88-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:49 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

09:56 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Corner of East Jackson and 46th. On road.

2 Excavation Location(s)

Location: ML 88-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780538@-104.942999

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID ML 88-9 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML 88-9-5
	Time 09:59 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:41 PM

Monitoring Technician Log

ID: 2018062148437.0

Title:	EN-22-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:29 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

01:27 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN-22-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780407@-104.936527

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BCF2DA9C-C272-4419-8461-A8182533CB94.jpg	6/21/2018 1:27:42 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN-22- 0'-3'
		Location EN-22-3
		Time 01:06 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:29 PM

Appendix: Attachments

Attachment #1
IMG_BCF2DA9C-C272-4419-8461-A8182533CB94.jpg



Monitoring Technician Log

ID: 2018061432550.0

Title:	ML99-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:26 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:02 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274 sign. In Round field

2 Excavation Location(s)

Location: ML99-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780393@-104.940186

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BFFC9D36-A4CC-49FE-AE1D-439CD610E91F.jpg	6/14/2018 9:03:32 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.0ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML99-1-0' - 0.5'
		Location ML99-1-5
		Time 08:06 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML99-1- 0.5' - 1'
		Location ML99-1-5
		Time 08:06 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML99-1-1' - 5'
		Location ML99-1-5

Time 08:06 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 3

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:26 PM

Appendix: Attachments

Attachment #1
IMG_BFFC9D36-A4CC-49FE-AE1D-439CD610E91F.jpg



Monitoring Technician Log

ID: 2018060750518.0

Title:	ML48-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:36 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

01:02 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 92

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and Thompson. In front of property, dirt based

2 Excavation Location(s)

Location: ML48-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780659@-104.954700

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FE684D14-2819-4F00-B0CF-25F1331ECE03.jpg	6/7/2018 2:02:39 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 22.2 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML48-4 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML48-4-5
		Time 02:05 PM
		Date 06/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:36 PM

Appendix: Attachments

Attachment #1
IMG_FE684D14-2819-4F00-B0CF-25F1331ECE03.jpg



Monitoring Technician Log

ID: 2018060535207.1

Title:	ML56-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:25 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

09:46 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under the I-70 viaduct, corner of Milwaukee and 46th

2 Excavation Location(s)

Location: ML56-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780010@-104.951709

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AD7FED4C-AB16-4926-9614-7E5A0E410B02.jpg	6/5/2018 9:48:19 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML56-9-0'-0.5'
		Location ML56-9-5
		Time 08:51 AM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ML56-9-.5'-1'
		Location ML56-9-5
		Time 08:57 AM
		Date 06/04/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ML56-9-1'-5'

Location ML56-9-5

Time 08:57 AM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:25 PM

Appendix: Attachments

Attachment #1
IMG_AD7FED4C-AB16-4926-9614-7E5A0E410B02.jpg



Monitoring Technician Log

ID: 2018062144006.0

Title:	EN-2-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:27 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

11:13 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 73

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN2-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780417@-104.938890

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_74BCBAAD-78AB-4CAE-8090-6F5C75B4F610.jpg	6/21/2018 12:15:13 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID:3.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN2-0'-3'
		Location EN2-3
		Time 11:25 AM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	3	Additional Comments
		Excavation depth: 3ft
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:23 PM

Appendix: Attachments

Attachment #1
IMG_74BCBAAD-78AB-4CAE-8090-6F5C75B4F610.jpg



Monitoring Technician Log

ID: 2018060633070.0

Title:	ML70-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:02 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

08:11 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Steele and 46th

2 Excavation Location(s)

Location: ML70-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779862@-104.948200

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D487D0DD-337F-4DA9-97EC-E013C7D29DDB.jpg	6/6/2018 9:11:50 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		4
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right .6 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML70-9 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML70-9-5
		Time 09:12 AM
		Date 06/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:02 PM

Appendix: Attachments

Attachment #1
IMG_D487D0DD-337F-4DA9-97EC-E013C7D29DDB.jpg



Monitoring Technician Log

ID: 2018062051495.1

Title:	ST100-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:07 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

02:18 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 76

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST100-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779454@-104.939618

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0F0FF78E-A5DC-4177-8BE2-67DEBEE50DD6.jpg	6/20/2018 2:19:01 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST100-5- 0' - 0.5'
		Location ST100-5-5
		Time 07:06 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST100-5- 0.5' - 1'
		Location ST100-5-5
		Time 07:06 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST100-5- 1' - 5'
		Location ST100-5-5

Time 01:42 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:07 PM

Appendix: Attachments

Attachment #1
IMG_0F0FF78E-A5DC-4177-8BE2-67DEBEE50DD6.jpg



Monitoring Technician Log

ID: 2018060435249.0

Title:	ML69-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:16 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

08:47 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 69

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot Truck Stop

2 Excavation Location(s)

Location: ML69-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780440@-104.948341

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Select those that apply. Saturated Soil

5 Depth to Native Material (feet)

6

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	Yes
	If yes, please explain further Red Brick
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 22.6ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML69-8-0'-0.5'; .5'-1'; 1'-5'
	Location ML69-8-5
	Time 09:09 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB- ML69-8-5'-7'
	Location ML69-8-5
	Time 09:09 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:14 PM

Monitoring Technician Log

ID: 2018060537333.1

Title:	ML54-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:24 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

10:19 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E Fillmore and 46th (on median)

2 Excavation Location(s)

Location: ML54-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780083@-104.952809

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7E44D750-4BEC-4272-B8D0-50FABF9F36CF.jpg	6/5/2018 10:23:00 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	1	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs at 53.1 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML54-6-0’-0.5’; .5’-1’; 1’-5’	
	Location ML54-6-5	
	Time 09:24 AM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:24 PM	

Appendix: Attachments

Attachment #1
IMG_7E44D750-4BEC-4272-B8D0-50FABF9F36CF.jpg



Monitoring Technician Log

ID: 2018060733547.0

Title:	ST39-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:11 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

08:19 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST39-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781116@-104.950749

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1939C297-8024-4DA9-8BC9-986F7DA9731C.jpg	6/7/2018 9:20:28 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

8

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 11.3

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST39-3-0’-0.5’
	Location ST39-3-5
	Time 08:20 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST39-3-.5’-1’
	Location ST39-3-5
	Time 08:23 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST39-3- 1’-5’
	Location ST39-3-5

Time 08:23 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST39-3-5'-8'

Location ST39-3-5

Time 08:24 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:11 PM

Appendix: Attachments

Attachment #1
IMG_1939C297-8024-4DA9-8BC9-986F7DA9731C.jpg



Monitoring Technician Log

ID: 2018061135969.0

Title:	ML65-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:46 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

08:59 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 62

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

I 70 exit and Steele. On median

2 Excavation Location(s)

Location: ML65-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780290@-104.949412

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F3F499CC-2A57-4FE2-BC83-95F1530F6831.jpg	6/11/2018 10:01:19 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
		4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
		No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
		No
3	Is there a presence of a distinguishable odor with the disturbed material?	
		No
4	Are there discreet layers in the soil cross section that generally appear out of place?	
		No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
		No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.5

4 Analytical

1	Were analytical samples taken?	
		Yes
2	Please fill out the information below for each sample location.	
		Sample ID CSB-ML65-9-0’-0.5’; .5’-1’; 1’-5’
		Location ML65-9-5
		Time 09:01 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?	
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?	
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:46 PM

Appendix: Attachments

Attachment #1
IMG_F3F499CC-2A57-4FE2-BC83-95F1530F6831.jpg



Monitoring Technician Log

ID: 2018061144769.0

Title:	ML50-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:56 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

11:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Vasquez Blvd and Clayton St. road based

2 Excavation Location(s)

Location: ML50-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780471@-104.954094

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AED33304-FB5F-441D-AC5C-B9984EF6D8C0.jpg	6/11/2018 12:27:08 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		3
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML50-5-0’-0.5’; .5’-1’; 1’-5’
		Location ML50-5-5
		Time 11:28 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:56 PM

Appendix: Attachments

Attachment #1
IMG_AED33304-FB5F-441D-AC5C-B9984EF6D8C0.jpg



Monitoring Technician Log

ID: 2018061137772.1

Title:	ML65-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:57 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

09:29 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 62

Weather: Sunny

5 Descriptions of Work Activities

Hand dig.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Next to sidewalk. 46th and I-70 exit.

2 Excavation Location(s)

Location: ML65-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780704@-104.949602

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1ABD14D6-AA8A-4BA0-A708-E8611F5D6590.jpg	6/11/2018 10:30:24 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand dig

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML65-4-0'-0.5'; .5'-1'
		Location ML65-4-5
		Time 09:32 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:57 PM

Appendix: Attachments

Attachment #1
IMG_1ABD14D6-AA8A-4BA0-A708-E8611F5D6590.jpg



Monitoring Technician Log

ID: 2018060434336.0

Title:	ML69-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete

1 General Information

1 Date

06/04/2018

2 Time

08:32 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot Truck Stop

2 Excavation Location(s)

Location: ML69-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780506@-104.948458

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML69-4-0'-0.5'; .5'-1'; 1'-5'	
	Location ML69-4-5	
	Time 08:33 AM	
	Date 06/04/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	

Monitoring Technician Log

ID: 2018061133327.0

Title:	ML65-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/8/2018 6:42 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

08:21 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 62

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot Truck Stop. Northwest parking lot.

2 Excavation Location(s)

Location: ML65-5-5

3 GPS or Survey Location of RHM Origination

39.7806, -104.9494

Attachments:

Attachment Name	Associated to Event Date/Time
ML65-5-5.jpg	6/28/2018 3:59:55 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML65-5-0'-0.5'; .5'-1'; 1'-5'
		Location ML65-5-5
		Time 09:06 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:49 PM

Appendix: Attachments

Attachment #1
ML65-5-5.jpg



Monitoring Technician Log

ID: 2018060153243.0

Title:	ML 75-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:42 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

02:47 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

under viaduct, 46th and steele

2 Excavation Location(s)

Location: ML 75-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780104@-104.946821

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	Yes	
	If yes, please explain further asphalt at 6"	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML 75-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML 75-6-5	
	Time 01:47 PM	
	Date 06/01/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:42 PM	

Monitoring Technician Log

ID: 2018062145199.0

Title:	EN10-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:28 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

11:33 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN10-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780381@-104.937895

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4C373DA1-A441-4EA3-A210-7E7FA03D1D31.jpg	6/21/2018 12:34:19 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID:3.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN10- 0'-3'
		Location EN-10-3
		Time 01:10 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:28 PM

Appendix: Attachments

Attachment #1
IMG_4C373DA1-A441-4EA3-A210-7E7FA03D1D31.jpg



Monitoring Technician Log

ID: 2018060632942.0

Title:	ML70-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:30 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

08:09 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Steele and 46th (field)

2 Excavation Location(s)

Location: ML70-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779849@-104.948532

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BED54945-FE87-4B62-9956-F78675DE9FF5.jpg	6/6/2018 9:09:31 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML70-5 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML70-5-5
		Time 09:09 AM
		Date 06/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 4:30 PM

Appendix: Attachments

Attachment #1
IMG_BED54945-FE87-4B62-9956-F78675DE9FF5.jpg



Monitoring Technician Log

ID: 2018060631704.0

Title:	ML66-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:42 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

07:48 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 65

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Steele and 46th

2 Excavation Location(s)

Location: ML66-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779865@-104.949081

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_392B5CA3-7BAF-42DE-A004-DD9F8C78CC49.jpg	6/6/2018 9:02:32 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

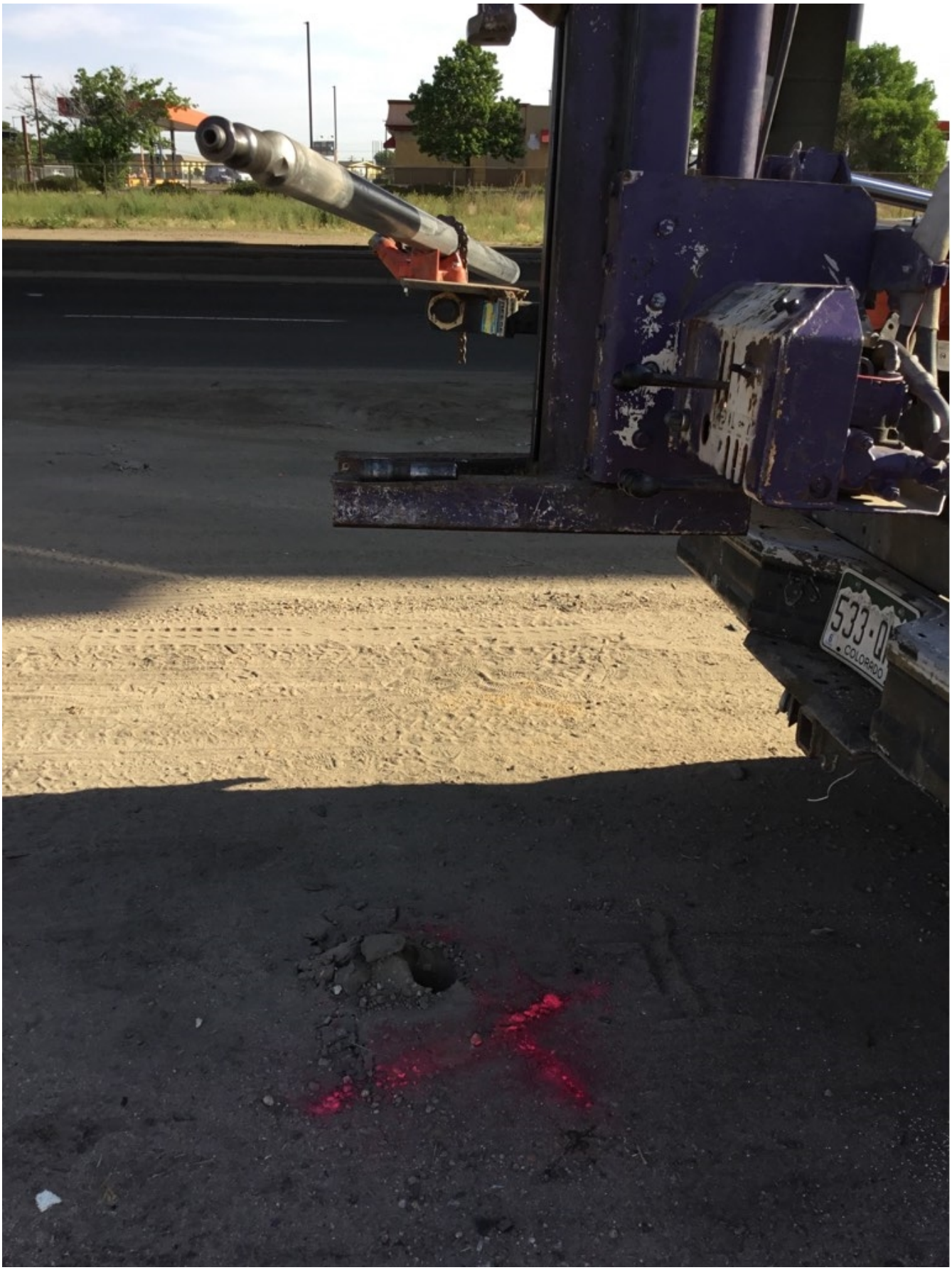
Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		4
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML66-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML66-1-5
		Time 08:58 AM
		Date 06/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 4:42 PM

Appendix: Attachments

Attachment #1
IMG_2EB71187-7C7B-4B03-9A31-41FAAE9D7C63.jpg



Attachment #2
IMG_392B5CA3-7BAF-42DE-A004-DD9F8C78CC49.jpg



Monitoring Technician Log

ID: 2018061557057.0

Title:	ST40-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:39 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

02:50 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 93

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vasquez Blvd. road based

2 Excavation Location(s)

Location: ST40-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781910@-104.950156

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4D600038-A839-439F-8805-A6B25A4100A3.jpg	6/15/2018 3:52:12 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 3.5	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ST40-4-0' - 0.5'	
	Location ST40-4-5	
	Time 02:52 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST40-4-0.5' - 1'	
	Location ST40-4-5	
	Time 02:52 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST40-4-1' - 5'

Location ST40-4-5

Time 02:52 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:39 PM

Appendix: Attachments

Attachment #1
IMG_4D600038-A839-439F-8805-A6B25A4100A3.jpg



Monitoring Technician Log

ID: 2018062144874.0

Title:	EN6-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:26 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

11:27 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 83

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN6-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780423@-104.938412

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5657A086-4BA8-4AD6-8E2A-E74F20DDE749.jpg	6/21/2018 12:28:34 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN6-0’-3’
		Location EN6-3
		Time 01:05 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:22 PM

Appendix: Attachments

Attachment #1
IMG_5657A086-4BA8-4AD6-8E2A-E74F20DDE749.jpg



Monitoring Technician Log

ID: 2018061149891.0

Title:	ML50-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:54 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

01:51 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Clayton

2 Excavation Location(s)

Location: ML50-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780648@-104.954239

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_14643163-3AE2-49C6-BCA9-DF753704B1AA.jpg	6/11/2018 1:52:39 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML50-1 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML50-1-5
		Time 12:47 PM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:54 PM

Appendix: Attachments

Attachment #1
IMG_14643163-3AE2-49C6-BCA9-DF753704B1AA.jpg



Monitoring Technician Log

ID: 2018062243222.0

Title:	EN28-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:39 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

11:00 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton Dr and I-70 exit

2 Excavation Location(s)

Location: EN28-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780478@-104.935775

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1BD99E09-C219-4010-9DF3-06E334A47CB6.jpg	6/22/2018 12:00:50 PM
IMG_13AA94DA-26DF-4698-BD06-FC1E240D2C0D.jpg	6/22/2018 12:00:59 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5’
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN28-0’-3’
		Location EN28-3
		Time 11:02 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:39 PM

Appendix: Attachments

Attachment #1
IMG_1BD99E09-C219-4010-9DF3-06E334A47CB6.jpg



Attachment #2
IMG_13AA94DA-26DF-4698-BD06-FC1E240D2C0D.jpg



Monitoring Technician Log

ID: 2018062039164.0

Title:	ST100-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 2:44 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

10:52 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST100-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779602@-104.939857

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EB16284D-C4E6-473E-AB9B-AC8C691269AD.jpg	6/20/2018 10:53:16 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST100-2-0' - 0.5'
		Location ST100-2-5
		Time 10:53 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST100-2-0.5' - 1'
		Location ST100-2-5
		Time 10:53 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST100-2-1' - 5'
		Location ST100-2-5

Time 10:53 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:44 PM

Appendix: Attachments

Attachment #1
IMG_EB16284D-C4E6-473E-AB9B-AC8C691269AD.jpg



Monitoring Technician Log

ID: 2018061139759.0

Title:	ML63-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:47 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

10:02 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 67

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Steele and 46th. West field.

2 Excavation Location(s)

Location: ML63-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780589@-104.950126

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D9E40B5C-6BBA-41EA-962A-04FC60CFBE85.jpg	6/11/2018 11:03:25 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		Yes
		If yes, please explain further Slag
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML63-4-0'-0.5'; .5'-1'; 1'-5'
		Location ML63-4-5
		Time 11:04 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:47 PM

Appendix: Attachments

Attachment #1
IMG_D9E40B5C-6BBA-41EA-962A-04FC60CFBE85.jpg



Monitoring Technician Log

ID: 2018061448067.0

Title:	ML99-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:26 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

12:21 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 97

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 West and I-70 west bound exit. On median

2 Excavation Location(s)

Location: ML99-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780364@-104.939460

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9CA68605-107C-4C14-BDDB-DD5795980C61.jpg	6/14/2018 1:23:14 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML99-8-0' - 0.5'
		Location ML99-8-5
		Time 12:23 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-8-0.5' - 1'
		Location ML99-8-5
		Time 12:23 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML99-8-1' - 5'
		Location ML99-8-5

Time 12:23 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:26 PM

Appendix: Attachments

Attachment #1
IMG_9CA68605-107C-4C14-BDDB-DD5795980C61.jpg



Monitoring Technician Log

ID: 2018062051357.0

Title:	ST 101-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:10 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

02:15 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 76

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST101-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779331@-104.939744

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B1996941-21A0-47C0-B3A6-CA77E66882C5.jpg	6/20/2018 2:16:54 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST101-4- 0' - 0.5'
		Location ST101-4-5
		Time 07:10 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST101-4- 0.5' - 1'
		Location ST101-4-5
		Time 07:10 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST101-4- 1' - 5'
		Location ST101-4-5

Time 01:35 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:10 PM

Appendix: Attachments

Attachment #1
IMG_B1996941-21A0-47C0-B3A6-CA77E66882C5.jpg



Monitoring Technician Log

ID: 2018060543606.0

Title:	ST37-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:15 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

12:06 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

East corner of 46th and E Milwaukee

2 Excavation Location(s)

Location: ST37-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779820@-104.951851

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AD263449-4869-485B-B3D1-360F4CA0AE11.jpg	6/5/2018 12:12:15 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		0-0.5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs at 58.3 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID N/a
		Time 12:08 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ST37-2 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
		Location ST37-2-2
		Time 12:55 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:15 PM

Appendix: Attachments

Attachment #1
IMG_AD263449-4869-485B-B3D1-360F4CA0AE11.jpg



Monitoring Technician Log

ID: 2018060538872.0

Title:	ML56-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:09 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

10:47 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

Comments: Hand auger PID 8.2
originally sampled 5/22

5 Descriptions of Work Activities

Hand dig

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and close to Clayton

2 Excavation Location(s)

Location: ML56-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780227@-104.951979

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A6AF6C52-1BD8-4F46-97A7-C1B922CC7CFF.jpg	6/5/2018 11:18:50 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.2 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB- ML56-6 (1’ intervals including 0’-0.5’; .5’-1’)	
	Location ML56-6-5	
	Time 04:07 PM	
	Date 06/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:09 PM	

Appendix: Attachments

Attachment #1
IMG_A6AF6C52-1BD8-4F46-97A7-C1B922CC7CFF.jpg



Monitoring Technician Log

ID: 2018060150305.0

Title:	ML 78-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:41 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

01:58 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (on median)

2 Excavation Location(s)

Location: ML78-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780049@-104.945662

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID ML 78-9 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML 78-9-5
	Time 01:36 PM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:41 PM

Monitoring Technician Log

ID: 2018062239033.0

Title:	EN30-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:41 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

09:50 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton north drive

2 Excavation Location(s)

Location: EN30-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780396@-104.935486

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_637BDF6D-0223-415E-B069-58CA37D22C87.jpg	6/22/2018 10:51:58 AM
IMG_F494280C-4A42-4E16-81A5-ABE852279B41.jpg	6/22/2018 10:52:05 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN30-0’-3’
		Location EN30-3
		Time 09:52 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Time 11:05 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:41 PM

Appendix: Attachments

Attachment #1
IMG_F494280C-4A42-4E16-81A5-ABE852279B41.jpg



Attachment #2
IMG_637BDF6D-0223-415E-B069-58CA37D22C87.jpg



Monitoring Technician Log

ID: 2018062148030.0

Title:	EN-16-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:25 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

01:20 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

2 Excavation Location(s)

Location: EN16-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780333@-104.937214

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_07D26FA4-283D-4F0C-8F38-1D507A225FD6.jpg	6/21/2018 1:21:23 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	No

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-EN16-0’-3’
	Location EN16-3
	Time 12:39 PM
	Date 06/21/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Mia Steenkamp - 06/23/2018 7:25 PM

Appendix: Attachments

Attachment #1
IMG_07D26FA4-283D-4F0C-8F38-1D507A225FD6.jpg



Monitoring Technician Log

ID: 2018060148452.0

Title:	ML83-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:48 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

12:27 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (median)

2 Excavation Location(s)

Location: ML83-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780096@-104.944771

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	Yes
	If yes, please explain further Approx 6” of asphalt at 1’ then native
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID ML 83-9 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML 83-9-5
	Time 01:31 PM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:40 PM

Monitoring Technician Log

ID: 2018061140027.0

Title:	ML63-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:48 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

10:07 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 67

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and Steele. West field

2 Excavation Location(s)

Location: ML63-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780536@-104.950298

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AFCC75CC-09D2-418F-82C1-E9F848B2B8F3.jpg	6/11/2018 11:08:11 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5ft

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.2 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML63-2- 0'-0.5'; .5'-1'; 1'-5'
		Location ML63-2-5
		Time 10:08 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:48 PM

Appendix: Attachments

Attachment #1
IMG_AFCC75CC-09D2-418F-82C1-E9F848B2B8F3.jpg



Monitoring Technician Log

ID: 2018060632670.0

Title:	ML66-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:31 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

08:04 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Steele and 46th (field)

2 Excavation Location(s)

Location: ML66-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779874@-104.948833

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EAC21164-BEAF-4A55-9394-D93109508402.jpg	6/6/2018 9:06:40 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		Yes
		If yes, please explain further PVC debris
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.1 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML66-9-0'-0.5'; .5'-1'; 1'-5'
		Location ML66-9-5
		Time 09:07 AM
		Date 06/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 4:31 PM

Appendix: Attachments

Attachment #1
IMG_EAC21164-BEAF-4A55-9394-D93109508402.jpg



Monitoring Technician Log

ID: 2018062148642.0

Title:	EN-26-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:35 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

01:30 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN-26-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780399@-104.936072

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5A716996-5791-4356-A71A-F5A2B8C06C67.jpg	6/21/2018 1:31:12 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN-26-0’-3’
		Location EN-26-3
		Time 01:19 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:35 PM

Appendix: Attachments

Attachment #1
IMG_5A716996-5791-4356-A71A-F5A2B8C06C67.jpg



Monitoring Technician Log

ID: 2018060454505.0

Title:	ML66-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:18 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

03:08 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ML66-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780060@-104.949317

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

7

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML66-3 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML66-3-5
	Time 02:11 PM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ML66-3-5'-7'
	Location ML66-3-5
	Time 03:17 PM
	Date 06/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Monitoring Technician Log

ID: 2018060535982.0

Title:	ML56-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:52 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

08:59 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and E Milwaukee

2 Excavation Location(s)

Location: ML56-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780028@-104.952300

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E6F139B0-B2CE-4B76-BF5F-6E986437692F.jpg	6/5/2018 10:06:52 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 13.6ppm. VOC present
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML56-5-0'-0.5'; .5'-1'; 1'-5'
		Location ML56-5-5
		Time 10:00 AM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 3:52 PM

Appendix: Attachments

Attachment #1
IMG_E6F139B0-B2CE-4B76-BF5F-6E986437692F.jpg



Monitoring Technician Log

ID: 2018060439031.0

Title:	ML-70-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 7/12/2018 4:00 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

10:50 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct. steele and 46th

2 Excavation Location(s)

Location: ML70-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7802@-104.9483

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID ML-70-6-(5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML-70-6-5
	Time 02:53 PM
	Date 06/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID 2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’
	Time 10:03 AM
	Date 06/27/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/12/2018 9:34 AM

Monitoring Technician Log

ID: 2018060150840.0

Title:	ML 75-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:06 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

02:07 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (on median)

2 Excavation Location(s)

Location: ML 75-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780231@-104.946379

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML 75-9 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML 75-9-5	
	Time 02:42 PM	
	Date 06/01/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:06 PM	

Monitoring Technician Log

ID: 2018060538490.0

Title:	ML54-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:11 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

10:41 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Hand auger

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and close to Clayton

2 Excavation Location(s)

Location: ML54-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780321@-104.952756

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_505A20FF-22E1-4CD2-8D03-64260D575323.jpg	6/5/2018 10:44:17 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Comments: Hand auger. Originally sampled 5/22
PID 4.2

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML54-7 (1’ intervals including 0’-0.5’; .5’-1’)
	Location ML54-7-5
	Time 04:10 PM
	Date 06/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:11 PM

Appendix: Attachments

Attachment #1
IMG_505A20FF-22E1-4CD2-8D03-64260D575323.jpg



Monitoring Technician Log

ID: 2018062136207.0

Title:	ML63-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:24 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

09:03 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

In field, west of Steele st

2 Excavation Location(s)

Location: ML63-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780557@-104.950142

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B65264AD-57D1-40C8-81B2-472786F91A52.jpg	6/21/2018 10:06:29 AM
IMG_8D865F64-9586-40F0-8F24-D6EBD81B3EBB.jpg	6/21/2018 10:06:37 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.9 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ML63-5-0' - 0.5'	
	Location ML63-5-5	
	Time 09:07 AM	
	Date 06/21/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ML63-5-0.5' - 1'	
	Location ML63-5-5	
	Time 09:07 AM	
	Date 06/21/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ML63-5-1' - 5'

Location ML63-5-5

Time 09:07 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:24 PM

Appendix: Attachments

Attachment #1
IMG_B65264AD-57D1-40C8-81B2-472786F91A52.jpg



Attachment #2
IMG_8D865F64-9586-40F0-8F24-D6EBD81B3EBB.jpg



Monitoring Technician Log

ID: 2018060437455.0

Title:	ML79-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:11 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

09:24 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and east of Madison

2 Excavation Location(s)

Location: ML79-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780600@-104.945850

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

9

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 23.4ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML79-7-0'-0.5'; .5'-1'; 1'-5'
	Location ML79-7-5
	Time 09:26 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ML79-7-5'-9'
	Location ML79-7-5
	Time 09:34 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:11 PM

Monitoring Technician Log

ID: 2018062239522.0

Title:	EN36-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:39 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

10:33 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton Drive

2 Excavation Location(s)

Location: EN36-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780411@-104.934855

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_93242FF7-AF26-4898-A861-DCC5850B1AF0.jpg	6/22/2018 10:59:32 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.8 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN36-0'-3'
		Location EN36-3
		Time 10:38 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:39 PM

Appendix: Attachments

Attachment #1
IMG_93242FF7-AF26-4898-A861-DCC5850B1AF0.jpg



Monitoring Technician Log

ID: 2018061435167.0

Title:	ML99-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:27 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:46 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I70 and exit 274 sign

2 Excavation Location(s)

Location: ML99-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780379@-104.939786

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E537B7C4-D7B3-45DE-B2C8-707C47366B3C.jpg	6/14/2018 9:47:30 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.9 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML99-7-0' - 0.5'
		Location ML99-7-5
		Time 08:47 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-7-0.5' - 1'
		Location ML99-7-5
		Time 08:47 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-7-1' - 5'
		Location ML99-7-5

Time 08:47 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 1

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:27 PM

Appendix: Attachments

Attachment #1
IMG_E537B7C4-D7B3-45DE-B2C8-707C47366B3C.jpg



Monitoring Technician Log

ID: 2018060133295.0

Title:	ST 77-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:44 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

08:30 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Median between Colorado BLVD and I-70

2 Excavation Location(s)

Location: ST77-4-2

3 GPS or Survey Location of RHM Origination

39.7808, -104.9415

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Location N/A
	Time 09:36 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST 77-4 (2’ feet intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST 77-4-2
	Time 12:59 PM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 2:44 PM

Monitoring Technician Log

ID: 2018060751017.0

Title:	ML48-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:24 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

02:10 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 81

Weather: Sunny

5 Descriptions of Work Activities

Hand d

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Property yard 46th and Thompson

2 Excavation Location(s)

Location: ML48-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780456@-104.954497

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8ACDC111-F123-4BDA-A77C-0C98038ECEE5.jpg	6/7/2018 2:10:55 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand dig

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.3 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML48-8 (1’ intervals including 0’-0.5’; .5’-1’)
	Location ML48-8-5
	Time 05:23 PM
	Date 06/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 5:24 PM

Appendix: Attachments

Attachment #1
IMG_8ACDC111-F123-4BDA-A77C-0C98038ECEE5.jpg



Monitoring Technician Log

ID: 2018060542557.0

Title:	ST35-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:00 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

11:49 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E Fillmore and 46th, next to road

2 Excavation Location(s)

Location: ST35-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779918@-104.952568

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3F577FB4-24B5-4E23-8F52-5F81926A6EBE.jpg	6/5/2018 11:51:44 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0-.5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 28.6 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID N/A
		Location N/A
		Time 11:15 AM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ST35-2 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
		Location ST35-2-2
		Time 10:57 AM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:00 PM

Appendix: Attachments

Attachment #1
IMG_3F577FB4-24B5-4E23-8F52-5F81926A6EBE.jpg



Monitoring Technician Log

ID: 2018060456004.0

Title:	ML78-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:09 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

03:33 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ML78-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780068@-104.946194

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.4	
7	Additional Screening Comments/Observations:	
	PID calibrated	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML78-5 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML78-5-5	
	Time 02:22 PM	
	Date 06/04/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:08 PM	

Monitoring Technician Log

ID: 2018062145529.0

Title:	EN12-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:34 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

11:38 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN12-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780389@-104.937686

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C9F3E1C5-DBB8-4576-A131-1537ADAF9441.jpg	6/21/2018 12:39:43 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN12-0'-3'
		Location EN-12-3
		Time 01:12 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:34 PM

Appendix: Attachments

Attachment #1
IMG_C9F3E1C5-DBB8-4576-A131-1537ADAF9441.jpg



Monitoring Technician Log

ID: 2018061132992.0

Title:	ML65-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/28/2018 3:58 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

09:14 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 62

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot Truck Stop. Northwest parking lot.

2 Excavation Location(s)

Location: ML65-7-5

3 GPS or Survey Location of RHM Origination

39.7806, -104.9493

Attachments:

Attachment Name	Associated to Event Date/Time
ML65-7-5.jpg	6/28/2018 3:57:22 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

6

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML65-7-0’-0.5’; .5’-1’; 1’-5’
		Location ML65-7-5
		Time 09:08 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ML65-7-5’-7’
		Location ML65-7-5
		Time 09:10 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:43 PM

Appendix: Attachments

Attachment #1
ML65-7-5.jpg



Monitoring Technician Log

ID: 2018060644892.0

Title:	ST39-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:28 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

11:28 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

4162 Vasquez BLVD

2 Excavation Location(s)

Location: ST39-6-5

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CB532EC0-3016-463B-87F0-94D996E1DF51.jpg	6/6/2018 12:29:22 PM

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781293@-104.950854

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EF10AADC-3A21-43B7-832B-7A29E2E40262.jpg	6/6/2018 12:41:11 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

9

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.9

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

Sample ID CSB-ST39-6- 0'-0.5'; .5'-1'; 1'-5'; 5'-9'

Location ST39-6-5

Time 12:29 PM

Date 06/06/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:28 PM

Appendix: Attachments

Attachment #1
IMG_EF10AADC-3A21-43B7-832B-7A29E2E40262.jpg



Attachment #2
IMG_CB532EC0-3016-463B-87F0-94D996E1DF51.jpg



Monitoring Technician Log

ID: 2018062239281.0

Title:	EN32-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:41 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

10:23 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton Drive

2 Excavation Location(s)

Location: EN32-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780378@-104.935318

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_83170A8E-967B-4F6C-B8F3-546BFB6BD49B.jpg	6/22/2018 10:55:17 AM
IMG_F63AF227-78D6-4C0D-836E-27787AEB8F51.jpg	6/22/2018 10:55:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN32-0’-3’
		Location EN32-3
		Time 10:23 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:41 PM

Appendix: Attachments

Attachment #1
IMG_83170A8E-967B-4F6C-B8F3-546BFB6BD49B.jpg



Attachment #2
IMG_F63AF227-78D6-4C0D-836E-27787AEB8F51.jpg



Monitoring Technician Log

ID: 2018061433500.0

Title:	ML91-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:18 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:18 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274 sign. In round field.

2 Excavation Location(s)

Location: ML91-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780742@-104.939999

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C9C9AF64-25E7-4811-A812-C76F62941234.jpg	6/14/2018 9:23:11 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.7ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML91-7-0' - 0.5'
		Location ML91-7-5
		Time 08:20 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML91-7-0.5' - 1'
		Location ML91-7-5
		Time 08:20 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML91-7-1' - 5'
		Location ML91-7-5

Time 08:20 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 21

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:18 PM

Appendix: Attachments

Attachment #1
IMG_C9C9AF64-25E7-4811-A812-C76F62941234.jpg



Monitoring Technician Log

ID: 2018060750830.0

Title:	ML48-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:20 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

02:07 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Thompson and 46th (field)

2 Excavation Location(s)

Location: ML48-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780304@-104.954619

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BBBA20A7-FD5B-49B0-B73A-3BE3568FEB74.jpg	6/7/2018 2:07:42 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML48-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ML48-6-5
		Time 05:19 PM
		Date 06/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:20 PM

Appendix: Attachments

Attachment #1
IMG_BBBA20A7-FD5B-49B0-B73A-3BE3568FEB74.jpg



Monitoring Technician Log

ID: 2018062148229.0

Title:	EN-18-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:32 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

01:23 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 75

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN-18-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780344@-104.936948

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_425B301A-4015-4753-8E56-6E77A0400811.jpg	6/21/2018 1:24:35 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN16- 0'-3'
		Location EN16-3
		Time 02:42 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:32 PM

Appendix: Attachments

Attachment #1
IMG_425B301A-4015-4753-8E56-6E77A0400811.jpg



Monitoring Technician Log

ID: 2018060432477.0

Title:	ML68-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:27 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

08:01 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot Truck Stop

2 Excavation Location(s)

Location: ML68-7-5

3 GPS or Survey Location of RHM Origination

39.7806, -104.9487

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB- ML68-7-0’-0.5’; .5’-1’; 1’-5’
	Location ML68-7-5
	Time 08:02 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:27 PM

Monitoring Technician Log

ID: 2018061136883.0

Title:	ML65-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:49 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

09:14 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 62

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Steel and 46th. On median between I-70 exit and 46th

2 Excavation Location(s)

Location: ML65-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780343@-104.949623

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3A1EEED8-41B2-4C1F-B6F1-E7025B3B4D37.jpg	6/11/2018 10:19:15 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.1 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML65-3-0’-0.5’; .5’-1’; 1’-5’	
	Location ML65-3-5	
	Time 09:19 AM	
	Date 06/11/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 5:49 PM	

Appendix: Attachments

Attachment #1
IMG_3A1EEED8-41B2-4C1F-B6F1-E7025B3B4D37.jpg



Monitoring Technician Log

ID: 2018062239740.0

Title:	EN40-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:40 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

10:46 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton dr

2 Excavation Location(s)

Location: EN40-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780432@-104.934375

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B6CD7D02-F3C1-4D4E-9D57-CDD305145EFE.jpg	6/22/2018 11:02:51 AM
IMG_C13EE54B-6421-47EC-BE61-D06975A9180D.jpg	6/22/2018 11:03:05 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN40-0’-3’
		Location EN40-3
		Time 10:46 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:40 PM

Appendix: Attachments

Attachment #1
IMG_B6CD7D02-F3C1-4D4E-9D57-CDD305145EFE.jpg



Attachment #2
IMG_C13EE54B-6421-47EC-BE61-D06975A9180D.jpg



Monitoring Technician Log

ID: 2018060136172.0

Title:	ST 67-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:44 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

10:02 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

East Jackson st. On road.

2 Excavation Location(s)

Location: ST 67-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781410@-104.942897

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID N/A
	Location N/A
	Time 10:09 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST 67-1 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST 67-1-2
	Time 09:12 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 2:44 PM

Monitoring Technician Log

ID: 2018061146054.0

Title:	ML50-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:44 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

11:47 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Corner of Clayton st and Vazquez BLVD. property lawn

2 Excavation Location(s)

Location: ML50-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780393@-104.954050

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_87A12BDD-DFA2-4037-8CFD-6A2E34F77BDF.jpg	6/11/2018 12:49:13 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5ft

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 13.6 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML50-9-0'-0.5'; .5'-1'; 1'-5'
		Location ML50-9-5
		Time 11:49 AM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 5:44 PM

Appendix: Attachments

Attachment #1
IMG_87A12BDD-DFA2-4037-8CFD-6A2E34F77BDF.jpg



Monitoring Technician Log

ID: 2018060544410.1

Title:	ST37-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:25 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

12:00 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 91

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

South West corner of Steele and 46th

2 Excavation Location(s)

Location: ST37-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779900@-104.951258

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_638CA419-647B-4A5A-8F33-83C02221357D.jpg	6/5/2018 12:23:40 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0-0.5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs at 24.6ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID N/a
		Location N/a
		Time 04:24 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ST37-3- 0’-0.5’
		Location ST37-3-2
		Time 11:59 AM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ST37-3-5’-1’

Location ST37-3-2

Time 11:59 AM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST37-3-1'-3'

Location ST37-3-2

Time 11:59 AM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST37-3-3'-5'

Location ST37-3-2

Time 12:00 PM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:25 PM

Appendix: Attachments

Attachment #1
IMG_638CA419-647B-4A5A-8F33-83C02221357D.jpg



Monitoring Technician Log

ID: 2018061555199.0

Title:	ST40-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:30 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

02:19 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 93

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vasquez and Steele. Road based

2 Excavation Location(s)

Location: ST40-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781555@-104.950112

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_24AF2A38-B4F0-4114-A330-7080A3CB283C.jpg	6/15/2018 3:20:49 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	9	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ST40-6-0' - 0.5'	
	Location ST40-6-5	
	Time 02:21 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST40-6-0.5' - 1'	
	Location ST40-6-5	
	Time 02:21 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST40-6-1' - 5'

Location ST40-6-5

Time 02:21 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST40-6-5'-9'

Location ST40-6-5

Time 02:42 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:30 PM

Appendix: Attachments

Attachment #1
IMG_24AF2A38-B4F0-4114-A330-7080A3CB283C.jpg



Monitoring Technician Log

ID: 2018061440607.0

Title:	ML99-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:25 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

10:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 88

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274

2 Excavation Location(s)

Location: ML99-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780333@-104.940042

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_94D95B8D-C9DA-46E6-B870-23D903EA1209.jpg	6/14/2018 11:17:12 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.1ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML99-3-0' - 0.5'
		Location ML99-3-5
		Time 10:18 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-3-0.5' - 1'
		Location ML99-3-5
		Time 10:18 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML99-3-1' - 5'
		Location ML99-3-5

Time 10:18 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:25 PM

Appendix: Attachments

Attachment #1
IMG_94D95B8D-C9DA-46E6-B870-23D903EA1209.jpg



Monitoring Technician Log

ID: 2018061154066.0

Title:	ST29-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:43 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

03:01 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Josephine

2 Excavation Location(s)

Location: ST29-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781127@-104.958115

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C9A5FEC4-76F6-47FD-BC39-28AA37EC4D47.jpg	6/11/2018 3:02:47 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ST29-1 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’)
		Location ST29-1-2
		Time 01:50 PM
		Date 06/11/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	3	Additional Comments
		excavation depth 0'
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:43 PM

Appendix: Attachments

Attachment #1
IMG_C9A5FEC4-76F6-47FD-BC39-28AA37EC4D47.jpg



Monitoring Technician Log

ID: 2018060533646.1

Title:	ML56-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:17 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

08:20 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Clayton

2 Excavation Location(s)

Location: ML56-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780274@-104.952416

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID ML56-2 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML56-2-5	
	Time 09:22 AM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:17 PM	

Monitoring Technician Log

ID: 2018060553359.0

Title:	ST 55-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:51 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

01:53 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

SouthE corner of Steel and 46th

2 Excavation Location(s)

Location: ST55-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779822@-104.947944

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CFFBAC84-483A-4C83-A66F-F41A50CB5DCC.jpg	6/5/2018 2:52:16 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Unsaturated Native Soil

5	Depth to Native Material (feet)	
	0-.5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1-5' VOCs at 44.2 ppm 3-5' VOCs at 57.3ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID n/a	
	Time 02:54 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST55-1- 0'-0.5'; .5'-1'; 1'-3'; 3'-5'	
	Location ST55-1-2	
	Time 01:55 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:51 PM

Appendix: Attachments

Attachment #1
IMG_CFFBAC84-483A-4C83-A66F-F41A50CB5DCC.jpg



Monitoring Technician Log

ID: 2018062239647.0

Title:	EN38-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:40 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

10:42 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

E Stapleton dr

2 Excavation Location(s)

Location: EN38-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780441@-104.934609

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_11A23FC5-8CFC-438C-85B5-9BD209ACFDF4.jpg	6/22/2018 11:01:22 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.2 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN38-0'-3'
		Location EN38-3
		Time 10:43 AM
		Date 06/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:40 PM

Appendix: Attachments

Attachment #1
IMG_11A23FC5-8CFC-438C-85B5-9BD209ACFDF4.jpg



Monitoring Technician Log

ID: 2018060133037.0

Title:	ST 69-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:45 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

10:26 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

46th and Colorado BLVD (arkansas valley parking lot). South of Romantix building

2 Excavation Location(s)

Location: ST 69-3-2

3 GPS or Survey Location of RHM Origination

39.7808, -104.9419

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	Yes
	If yes, please explain further Trace amounts of road base/asphalt traveled down the tube
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID N/A
	Location N/A
	Time 09:20 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST 69-3 (0’-0.5’; .5’-1’; 1’-3’; 3’-5)
	Location ST69-3-2
	Time 10:24 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 2:45 PM

Monitoring Technician Log

ID: 2018060439340.0

Title:	ML-66-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 7/12/2018 3:59 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

10:55 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct. steele and 46th

2 Excavation Location(s)

Location: ML66-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7802@-104.9491

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1' 8"

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	Yes	
	If yes, please explain further 1' soil 8" asphalt	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4 Analytical

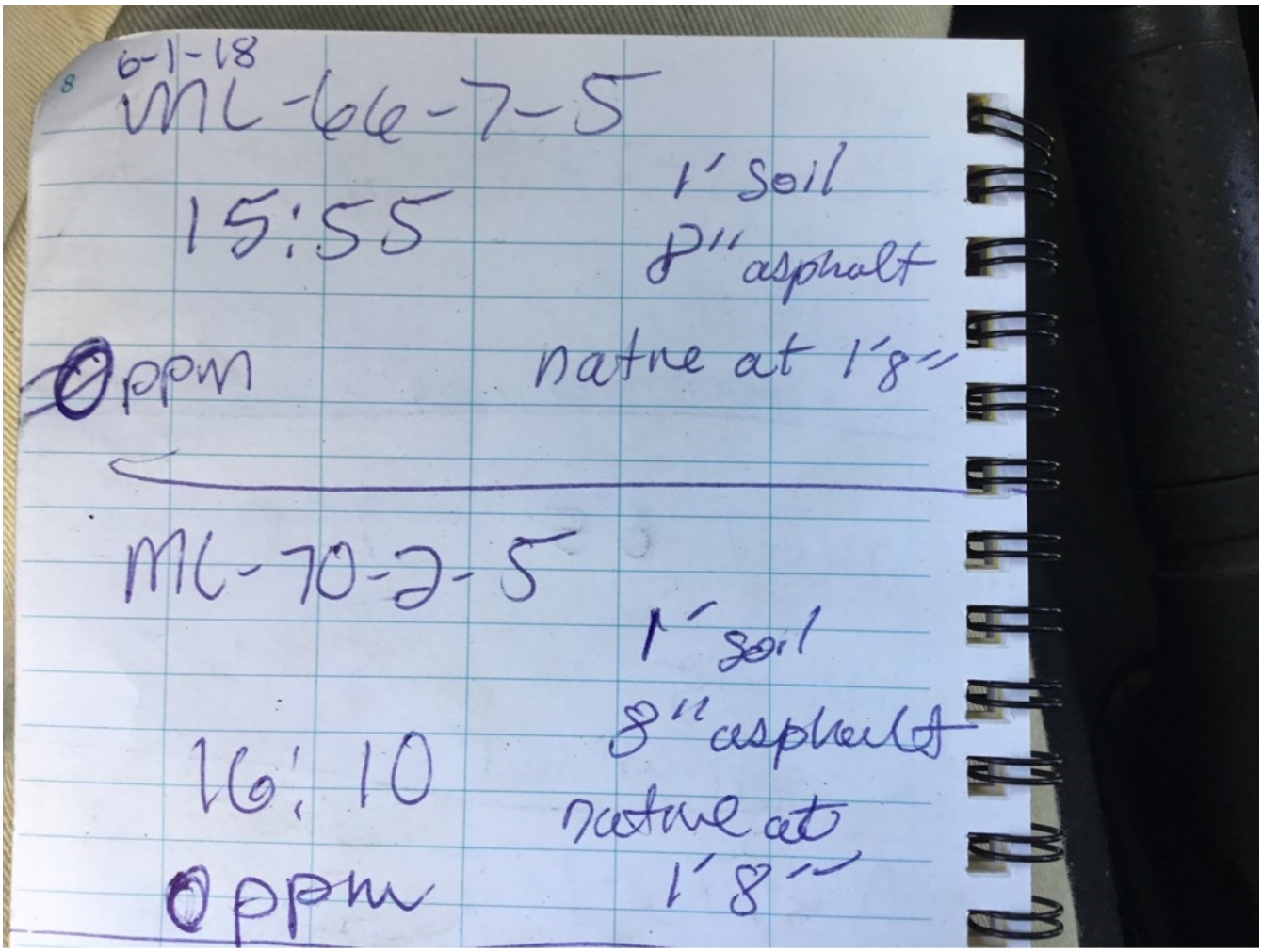
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML66-7 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML66-7-5	
	Time 02:15 PM	
	Date 06/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 07/12/2018 9:34 AM	

Appendix: Attachments

Attachment #1
IMG_F201F30B-A86F-47A3-BB8B-0F483A51E349.jpg



Monitoring Technician Log

ID: 2018060636085.0

Title:	ML57-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/2/2018 5:57 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

10:04 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Hand Auger

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

East I-70 exit ramp, next to road. Near Steele and 45th

2 Excavation Location(s)

Location: ML57-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7805@-104.9573

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

fill at 1'

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	No

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ML57-2 (1’ intervals including 0’-0.5’; 0.5’-1’)
	Location CSB-ML57-2-5
	Time 04:33 PM
	Date 06/06/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 07/02/2018 5:57 PM

Monitoring Technician Log

ID: 2018060736160.0

Title:	ST40-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:39 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

09:02 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 73

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST40-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781433@-104.950245

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C53E314C-3B8E-4FA8-BA7A-D9F46D280C5B.jpg	6/7/2018 10:03:37 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

7

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 11.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST40-2-0'-0.5'
	Location ST40-2-5
	Time 09:03 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST40-2- .5'-1'
	Location ST40-2-5
	Time 09:05 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST40-2-1'-5'
	Location ST40-2-5

Time 09:05 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST40-2-5'-7'

Location ST40-2-5

Time 09:17 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:39 PM

Appendix: Attachments

Attachment #1
IMG_C53E314C-3B8E-4FA8-BA7A-D9F46D280C5B.jpg



Monitoring Technician Log

ID: 2018062145001.0

Title:	EN8-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:27 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

11:30 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

N Stapleton

2 Excavation Location(s)

Location: EN8-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780403@-104.938147

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_04EEDE9A-87E7-4AAD-8880-46787F9F51D3.jpg	6/21/2018 12:31:04 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1.4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB- EN8- 0'-3'
		Location EN8-3
		Time 01:08 PM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Mia Steenkamp - 06/23/2018 7:23 PM

Appendix: Attachments

Attachment #1
IMG_04EEDE9A-87E7-4AAD-8880-46787F9F51D3.jpg



Monitoring Technician Log

ID: 2018060630788.0

Title:	ML66-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:41 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

07:33 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 65

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of Steele and 46th

2 Excavation Location(s)

Location: ML66-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779869@-104.949448

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2	
7	Additional Screening Comments/Observations:	
	PID calibrated	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML66-1-0’-0.5’; .5’-1’; 1’-5’	
	Location ML66-1-5	
	Time 07:40 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:41 PM	

Monitoring Technician Log

ID: 2018060643638.1

Title:	ST38-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:07 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

11:07 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

4621 Vasquez Blvd

2 Excavation Location(s)

Location: ST38-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781320@-104.950953

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_18C6D5C6-791D-43D0-BEC4-E15B7DF91F3D.jpg	6/6/2018 12:08:29 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	7	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 15.2 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML38-5 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML38-5-5	
	Time 12:10 PM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ML38-5-5'-7'	
	Location ST38-5-5	
	Time 05:05 PM	
	Date 06/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:07 PM

Appendix: Attachments

Attachment #1
IMG_18C6D5C6-791D-43D0-BEC4-E15B7DF91F3D.jpg



Monitoring Technician Log

ID: 2018060530158.0

Title:	ML54-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:06 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

08:22 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Clayton

2 Excavation Location(s)

Location: ML54-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780160@-104.953141

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0	
7	Additional Screening Comments/Observations:	
	PID calibrated	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML54-3 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML54-3-5	
	Time 08:24 AM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:06 PM	

Monitoring Technician Log

ID: 2018060143992.0

Title:	ML68-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:07 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

12:13 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Pilot truck stop. Southwest parking lot.

2 Excavation Location(s)

Location: ML 68-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780430@-104.949048

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB ML 68-5 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML 68-5-5
	Time 11:16 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:07 PM

Monitoring Technician Log

ID: 2018060153916.0

Title:	ML 73-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 7/9/2018 2:44 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

02:58 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: kmoore@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (on median)

2 Excavation Location(s)

Location: ML 73-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780010@-104.947950

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Asphalt layer at one foot, approximately 6 inches deep then native at 1.5 feet

5 Depth to Native Material (feet)

1.5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right not available in log book.

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID ML 73-1 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ML 73-1-5
	Time 02:59 PM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:43 PM

Monitoring Technician Log

ID: 2018060749223.0

Title: ML48-2-5

Org Unit: 26582 - 103565 - Central 70 KIC **Event Date:** 7 Jun 2018

Reporter: Alex Becker **Status:** Complete 6/23/2018 5:37 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

12:40 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 92

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

West Corner of Thompson and 46th (field)

2 Excavation Location(s)

Location: ML48-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780442@-104.954887

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9E012479-E74D-4264-8CFB-6297048AE700.jpg	6/7/2018 1:48:37 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 19.9 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ML48-2-0'-0.5'
		Location ML48-2-5
		Time 01:43 PM
		Date 06/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ML48-2-0.5'-1'
		Location ML48-2-5
		Time 01:49 PM
		Date 06/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ML48-2-1'-5'

Location ML48-2-5

Time 01:49 PM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:37 PM

Appendix: Attachments

Attachment #1
IMG_9E012479-E74D-4264-8CFB-6297048AE700.jpg



Monitoring Technician Log

ID: 2018060439464.0

Title:	ML-70-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 7/12/2018 4:01 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

10:57 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: kmoorefamilyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct. steele and 46th

2 Excavation Location(s)

Location: ML70-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7799@-104.9491

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

1' 8"

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

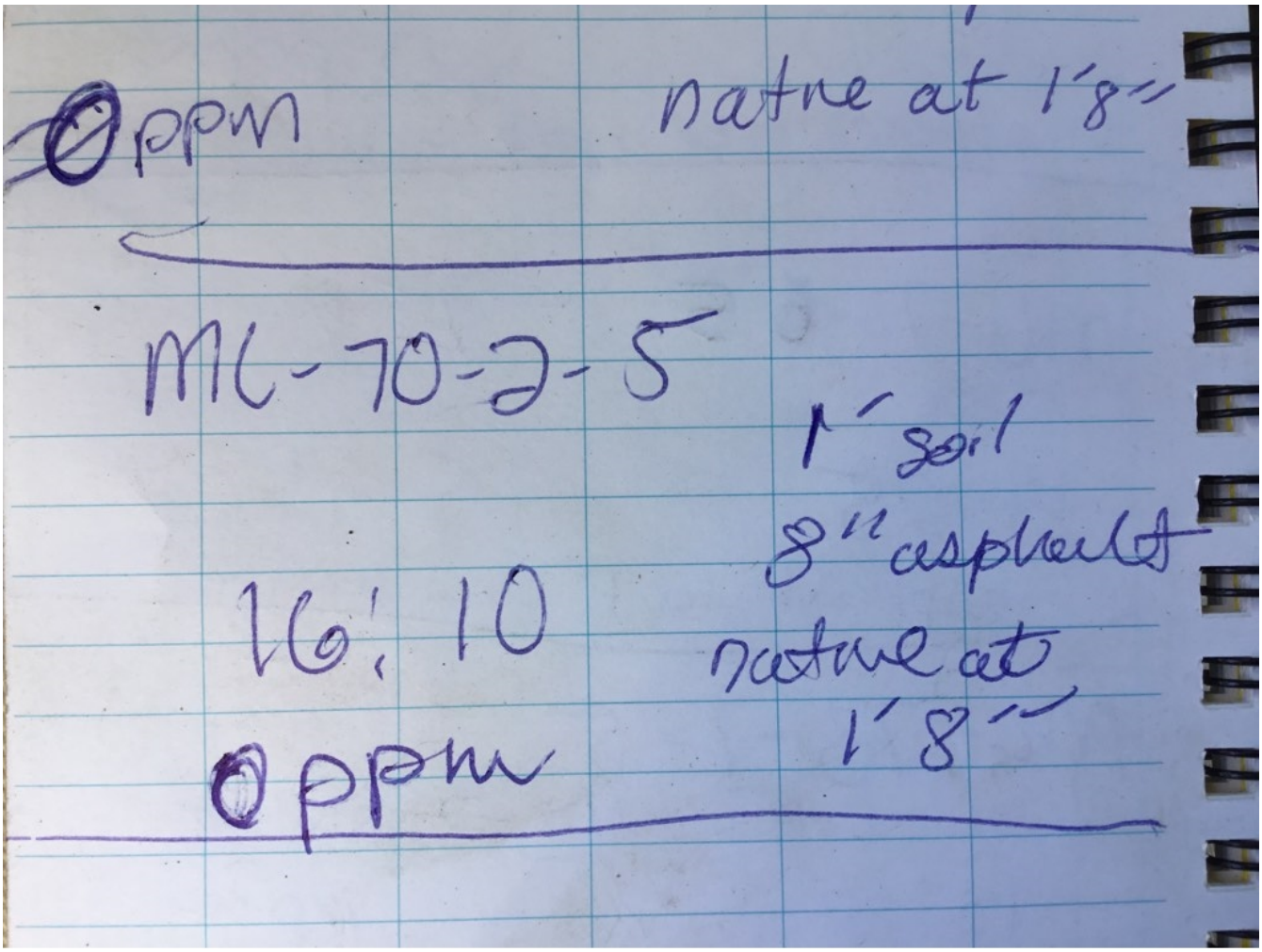
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ML70-2 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML70-2-5	
	Time 03:02 PM	
	Date 06/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 07/12/2018 9:34 AM	

Appendix: Attachments

Attachment #1
IMG_B1974141-DC4B-4052-8AD3-7134B5CD9CBD.jpg



Monitoring Technician Log

ID: 2018060153550.0

Title:	ML 75-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:45 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

02:52 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Under viaduct on 46th (on median)

2 Excavation Location(s)

Location: ML 75-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779962@-104.947103

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	Yes	
	If yes, please explain further Brick	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB- ML 75-2 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)	
	Location ML 75-2-5	
	Time 02:53 PM	
	Date 06/01/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 2:45 PM	

Monitoring Technician Log

ID: 2018061458855.0

Title:	ST100-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:24 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

03:20 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 88

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

South on ramp to 70 east. South side

2 Excavation Location(s)

Location: ST100-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779325@-104.939497

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_ACC70015-53B1-41FF-A989-DA53B8B92068.jpg	6/14/2018 4:21:51 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 4.0

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB-ST100-8- 0' - 0.5'
	Location ST100-8-5
	Time 03:23 PM
	Date 06/14/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB-ST100-8 - 0.5' - 1'
	Location ST100-8-5
	Time 03:23 PM
	Date 06/14/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB-ST100-8-1' - 5'
	Location ST100-8-5

Time 03:23 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 10

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:24 PM

Appendix: Attachments

Attachment #1
IMG_ACC70015-53B1-41FF-A989-DA53B8B92068.jpg



Monitoring Technician Log

ID: 2018062051609.1

Title:	ST100-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:16 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

02:20 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 76

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST100-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779587@-104.939464

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8EF75AE8-62E0-4AE5-B185-701FD7A5923F.jpg	6/20/2018 2:20:52 PM

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST100-6- 0' - 0.5'
		Location ST100-6-5
		Time 03:21 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST100-6- 0.5' - 1'
		Location ST100-6-5
		Time 03:21 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST100-6- 1' - 5'
		Location ST100-6-5

Time 01:53 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:16 PM

Appendix: Attachments

Attachment #1
IMG_8EF75AE8-62E0-4AE5-B185-701FD7A5923F.jpg



Monitoring Technician Log

ID: 2018061532885.0

Title:	ST95-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:40 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

08:08 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 65

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 eastbound ramp and Colorado Blvd. In field

2 Excavation Location(s)

Location: ST95-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778845@-104.939927

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_262CECCB-F1A4-407F-8907-14A1779391CB.jpg	6/15/2018 9:46:26 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

6

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.7 ppm

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB - ST95-7-0' - 0.5'
	Location ST95-7-5
	Time 08:10 AM
	Date 06/15/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST95-7-0.5' - 1'
	Location ST95-7-5
	Time 08:10 AM
	Date 06/15/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST95-7-1' - 5'
	Location ST95-7-5

Time 09:10 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ST95-7-5'-7'

Location ST95-7-5

Time 08:49 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:40 PM

Appendix: Attachments

Attachment #1
IMG_262CECCB-F1A4-407F-8907-14A1779391CB.jpg



Monitoring Technician Log

ID: 2018060655021.1

Title:	ST41-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:10 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

03:17 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 91

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

NW Corner of Vasquez and Steele

2 Excavation Location(s)

Location: ST41-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781006@-104.950351

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DE4B3F1C-E593-4735-9F35-8B98EE1AAEA9.jpg	6/6/2018 3:18:33 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID 18.8	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ST41-2- 0’-0.5’	
	Location ST41-2-5	
	Time 03:22 PM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST41-2-0.5’-1'	
	Location ST41-2-5	
	Time 03:30 PM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Add Another

Sample ID CSB-ST41-2-1'-5'

Location ST41-2-5

Time 03:30 PM

Date 06/06/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:10 PM

Appendix: Attachments

Attachment #1
IMG_DE4B3F1C-E593-4735-9F35-8B98EE1AAEA9.jpg



Monitoring Technician Log

ID: 2018062841184.0

Title:	ST-96-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:48 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

11:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST96-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.774133@-104.939104

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A507D00D-1DB3-486C-848A-A78E308C5878.jpg	6/28/2018 11:27:03 AM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 11.6
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST96-3- 0' - 0.5'
		Location ST96-3-5
		Time 05:27 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-3-0.5' - 1'
		Location ST96-3-5
		Time 05:27 PM
		Date 06/28/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ST96-3- 1' - 5'

Location ST96-3-5

Time 10:35 AM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:28 PM

Appendix: Attachments

Attachment #1
IMG_A507D00D-1DB3-486C-848A-A78E308C5878.jpg



Monitoring Technician Log

ID: 2018062043727.0

Title:	ST99-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 2:29 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

12:08 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 68

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST99-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779733@-104.939882

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2E6BEA95-FFB1-42B5-9C70-F9FDB31D5D53.jpg	6/20/2018 12:09:54 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST99-1-0' - 0.5'
		Location ST99-1-2
		Time 12:13 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST99-1-0.5' - 1'
		Location ST99-1-2
		Time 12:13 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST99-1-1' - 3'
		Location ST99-1-2

Time 12:13 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 12:13 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 0’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:29 PM

Appendix: Attachments

Attachment #1
IMG_2E6BEA95-FFB1-42B5-9C70-F9FDB31D5D53.jpg



Monitoring Technician Log

ID: 2018061537134.0

Title:	ST96-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:35 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

09:18 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 65

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd and I 70 east exit

2 Excavation Location(s)

Location: ST96-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778500@-104.940081

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D02395D7-71FC-4EF4-8A14-A053871BAFFB.jpg	6/15/2018 10:20:02 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Refusal at 4’ asphalt

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 20.1 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST96-6-0' - 0.5'
		Location ST96-6-5
		Time 09:20 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-6-0.5' - 1'
		Location ST96-6-5
		Time 09:20 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-6-1' - 4’
		Location ST96-6-5

Time 09:20 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Refusal at 4’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:35 PM

Appendix: Attachments

Attachment #1
IMG_D02395D7-71FC-4EF4-8A14-A053871BAFFB.jpg



Monitoring Technician Log

ID: 2018060653371.0

Title:	ST41-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:29 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

02:49 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Across pilot Truck Stop, in field. Steele and 46th, northwest corner

2 Excavation Location(s)

Location: ST41-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781026@-104.950139

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FE9DC02D-470A-4BE9-BBF1-3AA3ECC8A032.jpg	6/6/2018 2:49:58 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 31.8 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ST41-8 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ST41-8-5
		Time 02:57 PM
		Date 06/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/23/2018 4:29 PM

Appendix: Attachments

Attachment #1
IMG_FE9DC02D-470A-4BE9-BBF1-3AA3ECC8A032.jpg



Monitoring Technician Log

ID: 2018060553806.0

Title:	ST51-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:12 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

02:56 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

West corner of Steele and 46th

2 Excavation Location(s)

Location: ST51-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779737@-104.948528

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A5D23D30-E86C-41B7-921F-96CCFD77AE23.jpg	6/5/2018 3:05:50 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	0-.5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs 36ppm at 1'-3'	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID n/a	
	Time 01:58 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID ST51-4-0'- 0.5'; .5'-1'; 1'-3'	
	Location ST51-4-2	
	Time 02:00 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:12 PM

Appendix: Attachments

Attachment #1
IMG_A5D23D30-E86C-41B7-921F-96CCFD77AE23.jpg



Monitoring Technician Log

ID: 2018061948965.1

Title:	ST71-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/9/2018 1:45 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

03:04 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 82

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

NB lane CO Blvd north of 70

2 Excavation Location(s)

Location: ST71-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.783070@-104.940514

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F2C7E263-392D-4451-A5E3-40E6B0801B6F.jpg	6/19/2018 1:44:18 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	4ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 50.4	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB-ST71-3- 0' - 0.5'	
	Location ST71-3-2	
	Time 03:02 PM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB-ST71-3 - 0.5' - 1'	
	Location ST71-3-2	
	Time 03:01 PM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB-ST71-3- 1' - 3'

Location ST71-3-2

Time 03:01 PM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Time 04:01 PM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 2

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

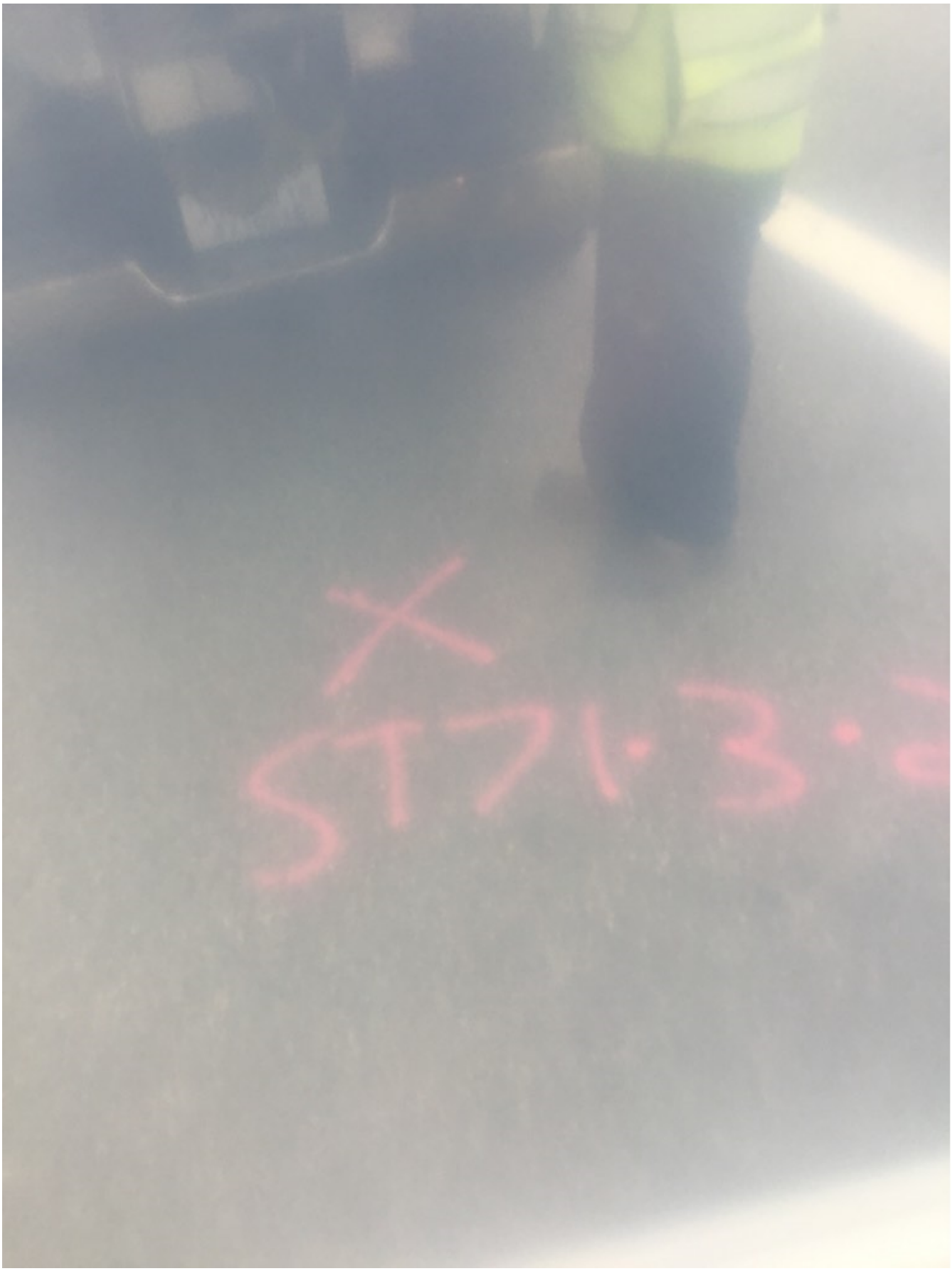
Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/09/2018 1:45 PM

Appendix: Attachments

Attachment #1
IMG_F2C7E263-392D-4451-A5E3-40E6B0801B6F.jpg



Monitoring Technician Log

ID: 2018060445459.0

Title:	ST61-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/2/2018 5:54 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

12:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST61-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7798@-104.9440

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

fill at 5'

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID n/a
	Time 03:26 PM
	Date 06/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB- ST61-3 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST61-3-2
	Time 03:26 PM
	Date 06/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 07/02/2018 5:54 PM

Monitoring Technician Log

ID: 2018061536663.0

Title:	ST95-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:35 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

09:11 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 65

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 eastbound exit and Colorado Blvd

2 Excavation Location(s)

Location: ST95-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778624@-104.939964

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D8A6D389-2682-49F4-A93D-A07CCB94CC35.jpg	6/15/2018 10:51:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Refusal at 4’ asphalt

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST96-6-0' - 0.5'
		Location ST96-6-5
		Time 10:52 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-6-0.5' - 1'
		Location ST96-6-5
		Time 10:52 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-6-1' - 4’
		Location ST96-6-5

Time 09:52 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Refusal at 4

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:35 PM

Appendix: Attachments

Attachment #1
IMG_D8A6D389-2682-49F4-A93D-A07CCB94CC35.jpg



Monitoring Technician Log

ID: 2018061935206.0

Title:	ST82-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:47 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

08:46 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 exit to Colorado Blvd

2 Excavation Location(s)

Location: ST82-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778954@-104.941012

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2665D58B-93CB-4491-A312-DDD05D2B8CF1.jpg	6/19/2018 9:47:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.6 ppm

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	2' intervals
	Sample ID CSB - ST82-4-0' - 0.5'
	Location ST82-4-2
	Time 08:48 AM
	Date 06/19/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST82-4-0.5' - 1'
	Location ST82-4-2
	Time 08:48 AM
	Date 06/19/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST82-4-1' - 3'
	Location ST82-4-2

Time 08:48 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST82-4-3' - 5'

Location ST82-4-2

Time 08:48 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 4ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:47 PM

Appendix: Attachments

Attachment #1
IMG_2665D58B-93CB-4491-A312-DDD05D2B8CF1.jpg



Monitoring Technician Log

ID: 2018061340580.0

Title:	ST73-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:04 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

11:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado BLVD, 48th. East median

2 Excavation Location(s)

Location: ST73-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782659@-104.940262

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0F57F7BA-FEA4-4188-96E0-01137C87EDD9.jpg	6/13/2018 11:17:47 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
	7	Additional Screening Comments/Observations:
		0.6 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST73-3-0' - 0.5'
		Location ST73-3-2
		Time 10:19 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST73-3-0.5' - 1'
		Location ST73-3-2
		Time 10:20 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST73-3-1' - 3'

Location ST73-3-2

Time 10:20 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 11:22 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 3’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:04 PM

Appendix: Attachments

Attachment #1
IMG_0F57F7BA-FEA4-4188-96E0-01137C87EDD9.jpg



Monitoring Technician Log

ID: 2018061341767.0

Title:	ST88-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:06 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

11:01 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and Colorado, on E median

2 Excavation Location(s)

Location: ST88-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781722@-104.940102

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B725C13C-6BBF-45D2-BCEC-8C5ABD90F4E7.jpg	6/13/2018 11:36:51 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 15’. Excavation depth 11’

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2 ppm

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB -ST88-9- 0' - 0.5'
	Location ST88-9-5
	Time 11:23 AM
	Date 06/13/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST88-9- 0.5' - 1'
	Location ST88-9-5
	Time 11:23 AM
	Date 06/13/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB -ST88-9- 1' - 5'
	Location ST88-9-5

Time 11:23 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ST88-9- 5'- 10'

Location ST88-9-5

Time 11:23 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ST88-9- 10'-12'

Location ST88-9-5

Time 11:23 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 11'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:06 PM

Appendix: Attachments

Attachment #1
IMG_B725C13C-6BBF-45D2-BCEC-8C5ABD90F4E7.jpg



Monitoring Technician Log

ID: 2018060740250.0

Title:	ST79-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:15 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:10 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 79

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST79-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780682@-104.941125

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_23805507-8329-434F-9748-A56484909F5B.jpg	6/7/2018 11:11:49 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST79-3-0'-0.5'
	Location ST79-3-2
	Time 10:13 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST79-3-.5'-1'
	Location ST79-3-2
	Time 10:14 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST79-3- 1'-3'
	Location ST79-3-2

Time 10:15 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:15 PM

Appendix: Attachments

Attachment #1
IMG_23805507-8329-434F-9748-A56484909F5B.jpg



Monitoring Technician Log

ID: 2018060551212.0

Title:	ST42-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:56 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

01:13 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of 46th and Steele

2 Excavation Location(s)

Location: ST42-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779790@-104.950480

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A1181F79-A1A7-4229-8089-6C0DC77C60A4.jpg	6/5/2018 2:18:35 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2.5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		Yes
		If yes, please explain further Asphalt at 2-2.5 ft
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs at 31.2 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID N/a
		Location N/a
		Time 02:15 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB-ST42-4 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’)
		Location ST42-4-2
		Time 01:16 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:56 PM

Appendix: Attachments

Attachment #1
IMG_A1181F79-A1A7-4229-8089-6C0DC77C60A4.jpg



Monitoring Technician Log

ID: 2018061356892.0

Title:	ST90-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:58 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

02:48 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Median between CO Blvd and off ramp

2 Excavation Location(s)

Location: ST90-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781105@-104.940096

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2A06AD20-4258-4E86-B7A3-C91F629379D4.jpg	6/13/2018 3:49:18 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID:2.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB-ST90-7- 0' - 0.5'
		Location ST90-7-5
		Time 02:50 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST90-7- 0.5' - 1'
		Location ST90-7-5
		Time 02:50 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST90-7 - 1' - 5'
		Location ST90-7-5

Time 02:50 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:58 PM

Appendix: Attachments

Attachment #1
IMG_2A06AD20-4258-4E86-B7A3-C91F629379D4.jpg



Monitoring Technician Log

ID: 2018061548019.1

Title:	ST84-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:41 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

01:00 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 94

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east exit and Colorado blvd

2 Excavation Location(s)

Location: ST84-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778080@-104.940150

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7FBC260C-8983-4649-900B-C0A14D891DA6.jpg	6/15/2018 1:21:16 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 1’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST84-3-0' - 0.5'
		Location ST84-3-2
		Time 02:03 PM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST84-3-0.5' - 1'
		Location ST84-3-2
		Time 02:03 PM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST84-3-1' - 3'
		Location ST84-3-2
		Time 02:03 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 02:03 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:41 PM

Appendix: Attachments

Attachment #1
IMG_7FBC260C-8983-4649-900B-C0A14D891DA6.jpg



Monitoring Technician Log

ID: 2018060742255.0

Title:	ST76-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:31 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:44 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST76-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781446@-104.941194

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4570DE21-E5C9-4EF2-AA06-995ABD07BE09.jpg	6/7/2018 11:45:11 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST76-1- 0’-0.5’
	Location ST76-1-2
	Time 10:45 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST76-1- .5’-1’
	Location ST76-1-2
	Time 10:48 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST76-1-1’-3’
	Location ST76-1-2

Time 10:48 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:31 PM

Appendix: Attachments

Attachment #1
IMG_4570DE21-E5C9-4EF2-AA06-995ABD07BE09.jpg



Monitoring Technician Log

ID: 2018060441664.0

Title:	ST63-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:25 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

11:34 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ST63-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780024@-104.944421

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 16.5	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ST63-3 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3, 3’-5’)	
	Location ST65-3-2	
	Time 10:14 AM	
	Date 06/04/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	
5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:25 PM	

Monitoring Technician Log

ID: 2018062041557.0

Title:	ST92-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:20 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

11:32 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST92-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779661@-104.940127

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6BB8C46A-C0E3-4299-BFA5-3BC9734B31B9.jpg	6/20/2018 11:33:19 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST92-3-0' - 0.5'
		Location ST92-3-2
		Time 11:33 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST92-3- 0.5' - 1'
		Location ST92-3-2
		Time 11:33 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST92-3-1' - 3'
		Location ST92-3-2

Time 11:33 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST92-3-3' - 5'

Location ST92-3-2

Time 11:33 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 10’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:20 PM

Appendix: Attachments

Attachment #1
IMG_6BB8C46A-C0E3-4299-BFA5-3BC9734B31B9.jpg



Monitoring Technician Log

ID: 2018060739618.0

Title:	ST79-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:27 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:00 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 79

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST79-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780580@-104.941221

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E0D77321-8B70-47FB-A48F-1A1952196F70.jpg	6/7/2018 11:01:15 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST79-2-0'-.5'
	Location ST79-2-2
	Time 10:01 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST79-2-.5'-1'
	Location ST79-2-2
	Time 10:06 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST79-2- 1'-3'
	Location ST79-2-2

Time 10:07 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST79-2-3'-5'

Location ST79-2-2

Time 10:07 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:27 PM

Appendix: Attachments

Attachment #1
IMG_E0D77321-8B70-47FB-A48F-1A1952196F70.jpg



Monitoring Technician Log

ID: 2018061343990.0

Title:	ST89-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:12 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

11:58 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 87

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and Colorado BLVD. East median

2 Excavation Location(s)

Location: ST89-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781557@-104.940061

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_30A87B56-B5FC-4D9F-910C-E7AB0B144A4D.jpg	6/13/2018 12:46:20 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 20’. Excavation depth 20’

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.4pm

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB -ST89-8-0' - 0.5'
	Location ST89-8-5
	Time 11:57 AM
	Date 06/13/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST89-8-0.5' - 1'
	Location ST89-8-5
	Time 11:57 AM
	Date 06/13/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST89-8-1' - 5'
	Location ST89-8-5

Time 11:57 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST89-8-5'-10'

Location ST89-8-5

Time 11:57 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ST89-8-10'-15'

Location ST89-8-5

Time 11:57 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ST89-8-15'-20'

Location ST89-8-5

Time 11:57 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:12 PM

Appendix: Attachments

Attachment #1
IMG_30A87B56-B5FC-4D9F-910C-E7AB0B144A4D.jpg



Monitoring Technician Log

ID: 2018062638835.0

Title:	ST86-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 5:19 PM (Central Time)

1 General Information

1 Date

06/26/2018

2 Time

09:47 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 82

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB CO BLVD

2 Excavation Location(s)

Location: ST86-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777396@-104.940682

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5462D9B7-B24C-4BA1-9FC1-5B5BF8C7ADF5.jpg	6/26/2018 10:48:07 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill material at 2ft
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 7.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST86-2- 0' - 0.5'
		Location ST86-2-2
		Time 09:48 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST86-2 - 0.5' - 1'
		Location ST86-2-2
		Time 09:48 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB-ST86-2 - 1' - 2'

Location ST86-2-2

Time 09:48 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 11:48 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 2ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Emily Koenigs - 06/27/2018 5:19 PM

Appendix: Attachments

Attachment #1
IMG_5462D9B7-B24C-4BA1-9FC1-5B5BF8C7ADF5.jpg



Monitoring Technician Log

ID: 2018060137834.0

Title:	ST67-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 2:43 PM (Central Time)

1 General Information

1 Date

06/01/2018

2 Time

10:30 AM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-626-8778

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E Jackson and 46th. Building driveway, inside fence

2 Excavation Location(s)

Location: ST 67-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780662@-104.942732

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0 ppm

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID N/a
	Time 09:51 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID ST 67-4 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST 67-4-2
	Time 09:53 AM
	Date 06/01/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 2:43 PM

Monitoring Technician Log

ID: 2018060450023.1

Title:	ST65-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/2/2018 5:52 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

01:53 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ST65-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779725@-104.943952

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

DTN 20’

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID n/a
	Time 01:58 PM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST65-3 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST65-3-2
	Time 11:55 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST65-3-5'-10'
	Location ST65-3-2
	Time 11:55 AM
	Date 06/04/2018
	Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST65-3-10'-15'

Location ST65-3-2

Time 11:55 AM

Date 06/04/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST65-3-15'-17'

Location ST65-3-2

Time 11:55 AM

Date 06/04/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST65-3-17'-20'

Location ST65-3-2

Time 11:55 AM

Date 06/04/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:50 PM

Monitoring Technician Log

ID: 2018062845021.0

Title:	ST-93-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:15 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

12:30 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 95

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST93-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779230@-104.940483

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_91C5F0BB-B2DD-40ED-8A17-D389FEE12C3A.jpg	6/28/2018 12:30:55 PM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 7
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 14.7
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST93-3- 0' - 0.5'
		Location ST93-3-5
		Time 02:53 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-3-0.5' - 1'
		Location ST93-3-5
		Time 02:53 PM
		Date 06/28/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ST93-3- 1' - 5'

Location ST93-3-5

Time 02:53 PM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:41 PM

Appendix: Attachments

Attachment #1
IMG_91C5F0BB-B2DD-40ED-8A17-D389FEE12C3A.jpg



Monitoring Technician Log

ID: 20180613523210

Title:	ST98-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:04 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

01:32 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

In the median between CO Blvd and 48th st

2 Excavation Location(s)

Location: ST98-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780867@-104.939433

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E9E3A5C1-7022-4AB3-A204-B09FB0454E62.jpg	6/13/2018 2:32:59 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 0.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST98-1 - 0' - 0.5'
		Location ST98-1-2
		Time 01:35 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST98-1- 0.5' - 1'
		Location ST98-1-2
		Time 01:35 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST98-1- 1' - 3'
		Location ST98-1-2

Time 01:36 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 01:36 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:04 PM

Appendix: Attachments

Attachment #1
IMG_E9E3A5C1-7022-4AB3-A204-B09FB0454E62.jpg



Monitoring Technician Log

ID: 2018061542271.0

Title:	ST95-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:37 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

11:00 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east exit and Colorado Blvd

2 Excavation Location(s)

Location: ST95-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778641@-104.940094

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0C9CCE3F-1094-4A51-A5DC-D88EC45A3290.jpg	6/15/2018 11:45:08 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

10

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST95-5-0' - 0.5'
		Location ST95-5-5
		Time 11:00 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST95-5-0.5' - 1'
		Location ST95-5-5
		Time 11:00 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST95-5-1' - 5'
		Location ST95-5-5

Time 11:00 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:37 PM

Appendix: Attachments

Attachment #1
IMG_0C9CCE3F-1094-4A51-A5DC-D88EC45A3290.jpg



Monitoring Technician Log

ID: 2018061936028.0

Title:	ST83-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:46 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

09:27 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 exit to Colorado Blvd (south)

2 Excavation Location(s)

Location: ST83-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778519@-104.940910

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5EF54D10-D6FD-4CE6-A2A2-BBD5188B7BDD.jpg	6/19/2018 10:01:29 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST83-4-0' - 0.5'
		Location ST83-4-2
		Time 09:27 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST83-4-0.5' - 1'
		Location ST83-4-2
		Time 09:27 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST83-4-1' - 3'
		Location ST83-4-2

Time 09:27 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST83-4- 3' - 5'

Location ST83-4-2

Time 09:27 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 5ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:46 PM

Appendix: Attachments

Attachment #1
IMG_5EF54D10-D6FD-4CE6-A2A2-BBD5188B7BDD.jpg



Monitoring Technician Log

ID: 2018062035885.0

Title:	ST95-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:08 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

09:27 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST95-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778799@-104.940254

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_484DD771-D104-41B1-9C9D-A7D419E55538.jpg	6/20/2018 9:59:08 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST95-1-0' - 0.5'
		Location ST95-1-5
		Time 09:30 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST95-1-0.5' - 1'
		Location ST95-1-5
		Time 09:30 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST95-1-1' - 5'
		Location ST95-1-5

Time 09:30 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:08 PM

Appendix: Attachments

Attachment #1
IMG_484DD771-D104-41B1-9C9D-A7D419E55538.jpg



Monitoring Technician Log

ID: 2018061334736.0

Title:	ST70-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:02 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

08:38 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 69

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado BLVD, near 48th, on median

2 Excavation Location(s)

Location: ST70-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.783331@-104.940745

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_476E352C-374A-499A-944C-FAD1D90F85D6.jpg	6/13/2018 9:39:42 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST70-4-0' - 0.5'
		Location ST70-4-2
		Time 09:44 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST70-4-0.5' - 1'
		Location ST70-4-2
		Time 09:44 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST70-4-1' - 3'
		Location ST70-4-2

Time 09:44 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 09:44 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 2’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:02 PM

Appendix: Attachments

Attachment #1
IMG_476E352C-374A-499A-944C-FAD1D90F85D6.jpg



Monitoring Technician Log

ID: 2018061550921.0

Title:	ST49-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:33 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

01:08 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 93

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

45th and Steele. Road based

2 Excavation Location(s)

Location: ST49-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779216@-104.949781

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F76CB938-C368-4702-A177-5295395CDF93.jpg	6/15/2018 2:12:33 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right .5 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB - ST49-1-0' - 0.5'	
	Location ST49-1-2	
	Time 01:13 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST49-1-0.5' - 1'	
	Location ST49-1-2	
	Time 01:14 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB -ST49-1- 1' - 3'

Location ST49-1-2

Time 01:14 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 02:24 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:33 PM

Appendix: Attachments

Attachment #1
IMG_F76CB938-C368-4702-A177-5295395CDF93.jpg



Monitoring Technician Log

ID: 2018062057788.1

Title:	ST70-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/28/2018 4:26 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

04:03 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 76

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST70-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.783962@-104.940750

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1B2A6C45-0C5C-484D-839C-3E14F34B3C0B.jpg	6/20/2018 4:08:04 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB -ST70-1- 0' - 0.5'
		Location ST70-1-2
		Time 07:11 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST70-1- 0.5' - 1'
		Location ST70-1-2
		Time 07:11 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST70-1-1' - 3'
		Location ST70-1-2

Time 03:10 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Time 07:11 PM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/28/2018 4:26 PM

Appendix: Attachments

Attachment #1
IMG_1B2A6C45-0C5C-484D-839C-3E14F34B3C0B.jpg



Monitoring Technician Log

ID: 2018062639126.0

Title:	ST86-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 5:18 PM (Central Time)

1 General Information

1 Date

06/26/2018

2 Time

09:52 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB CO BLVD

2 Excavation Location(s)

Location: ST86-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777159@-104.940703

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9F584BF6-FF75-4D96-BE39-431B8CC16F61.jpg	6/26/2018 11:40:02 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill material at 3ft
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 7.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST86-4 - 0' - 0.5'
		Location ST86-4-2
		Time 09:53 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST86-4- 0.5' - 1'
		Location ST86-4-2
		Time 09:53 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB-ST86-4 - 1' - 3'

Location ST86-4-2

Time 09:53 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 11:53 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 3ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Emily Koenigs - 06/27/2018 5:18 PM

Appendix: Attachments

Attachment #1
IMG_9F584BF6-FF75-4D96-BE39-431B8CC16F61.jpg



Monitoring Technician Log

ID: 2018060445494.0

Title:	ST61-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:13 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

12:38 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ST61-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779670@-104.945204

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5’

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.0
7	Additional Screening Comments/Observations:
	PID calibrated

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID n/a
	Time 01:01 PM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST61-1 (2’ intervals including 0’-0.5’; .5’-1’; 3’-5’)
	Location ST61-1-2
	Time 11:02 AM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:13 PM

Monitoring Technician Log

ID: 2018062237391.0

Title:	ST88-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:41 PM (Central Time)

1 General Information

1 Date

06/22/2018

2 Time

09:23 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 73

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado BLVD (close to 48th)

2 Excavation Location(s)

Location: ST88-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782105@-104.940406

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E1CF41F2-FFE3-4BC1-B527-4B02920091F2.jpg	6/22/2018 10:24:42 AM
IMG_0808F7CA-A59E-4EFF-ADFC-53A101202704.jpg	6/22/2018 10:25:22 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0 ppm

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

5' intervals

Sample ID CSB - ST88-1-5’-10’

Location ST88-1-5

Time 09:25 AM

Date 06/22/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 10:25 AM

Date 06/22/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 10:25 AM

Date 06/22/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Capturing interval missed

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:41 PM

Appendix: Attachments

Attachment #1
IMG_0808F7CA-A59E-4EFF-ADFC-53A101202704.jpg



Attachment #2
IMG_E1CF41F2-FFE3-4BC1-B527-4B02920091F2.jpg



Monitoring Technician Log

ID: 2018061453846.0

Title:	ST81-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:27 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

01:57 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 92

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

In on ramp to 70 east

2 Excavation Location(s)

Location: ST81-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779399@-104.941085

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_338E5D74-5958-4815-8B1E-200EA43F4108.jpg	6/14/2018 2:58:03 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 4.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - 0' - 0.5'
		Location ST81-4-2
		Time 02:11 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST81-4- 0.5' - 1'
		Location ST81-4-2
		Time 02:11 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST81-4 - 1' - 3'
		Location ST81-4-2

Time 02:11 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 02:11 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:27 PM

Appendix: Attachments

Attachment #1
IMG_338E5D74-5958-4815-8B1E-200EA43F4108.jpg



Monitoring Technician Log

ID: 2018061355923.0

Title:	ST90-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:13 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

02:32 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 89

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Median between CO Blvd and off ramp

2 Excavation Location(s)

Location: ST90-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780952@-104.940028

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3E722B87-B4C9-4885-8AD3-227E7BF74901.jpg	6/13/2018 3:33:11 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID:5.4

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB-ST90-9- 0' - 0.5'
	Location ST90-9-5
	Time 02:33 PM
	Date 06/13/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB-ST90-9- 0.5' - 1'
	Location ST90-9-5
	Time 02:33 PM
	Date 06/13/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB-ST90-9- 1' - 5'
	Location ST90-9-5

Time 02:33 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:13 PM

Appendix: Attachments

Attachment #1
IMG_3E722B87-B4C9-4885-8AD3-227E7BF74901.jpg



Monitoring Technician Log

ID: 2018060658440.0

Title:	ST40–8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:46 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

03:14 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 91

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST40–8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781403@-104.950106

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E1D9EB0E-F3E7-4F4C-BD74-5A2426482616.jpg	6/6/2018 4:14:57 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST40–8 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
	Location ST40–8-5
	Time 04:15 PM
	Date 06/06/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
	Submit Initiated By: Mia Steenkamp - 06/23/2018 4:46 PM

Appendix: Attachments

Attachment #1
IMG_E1D9EB0E-F3E7-4F4C-BD74-5A2426482616.jpg



Monitoring Technician Log

ID: 2018062134314.0

Title:	ST45-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:35 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

08:31 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vasquez and Steele. By traffic light.

2 Excavation Location(s)

Location: ST45-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781871@-104.949752

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_922BF3EB-BCB5-4509-B726-33462C9A7E0F.jpg	6/21/2018 9:32:37 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill at 5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB - ST45-1-0' - 0.5'	
	Location ST45-1-2	
	Time 08:33 AM	
	Date 06/21/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST45-1-0.5' - 1'	
	Location ST45-1-2	
	Time 08:33 AM	
	Date 06/21/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST45-1-1' - 3'

Location ST45-1-2

Time 08:33 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST45-1-3' - 5'

Location ST45-1-2

Time 08:33 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 4’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:35 PM

Appendix: Attachments

Attachment #1
IMG_922BF3EB-BCB5-4509-B726-33462C9A7E0F.jpg



Monitoring Technician Log

ID: 2018061434751.0

Title:	ST98-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:15 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:39 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274 sign

2 Excavation Location(s)

Location: ST98-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780525@-104.939755

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CAA8C40A-52D1-4EEF-8A31-DF5F1AF18205.jpg	6/14/2018 9:39:38 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST98-3-0' - 0.5'
		Location ST98-3-2
		Time 08:41 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST98-3-0.5' - 1'
		Location ST98-3-2
		Time 08:41 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST98-3-1' - 3'
		Location ST98-3-2

Time 08:41 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 09:41 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:15 PM

Appendix: Attachments

Attachment #1
IMG_CAA8C40A-52D1-4EEF-8A31-DF5F1AF18205.jpg



Monitoring Technician Log

ID: 2018062735994.0

Title:	ST68-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	27 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:49 PM (Central Time)

1 General Information

1 Date

06/27/2018

2 Time

09:59 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST68-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779680@-104.941503

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6332615B-DA3E-4BD4-9736-CD838868741B.jpg	6/27/2018 10:22:01 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Replaced ST68-1-2

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB ST68-4-2- 0' - 0.5'
		Location ST68-4-2
		Time 10:00 am
		Date 06/27/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST68-4-2- 0.5' - 1'
		Location ST68-4-2
		Time 10:00 am
		Date 06/27/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB ST68-4-2- 1' - 3'

Location ST68-4-2

Time 10:00 am

Date 06/27/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ST68-4-2- 3' - 5'

Location ST68-4-2

Time 10:00 am

Date 06/27/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Appendix: Attachments

Attachment #1
IMG_6332615B-DA3E-4BD4-9736-CD838868741B.jpg



Monitoring Technician Log

ID: 2018060743640.0

Title:	ST74-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:21 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

11:07 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 81

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST74-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782168@-104.941072

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1453C2D7-85C5-4CA2-BEAF-BA60F711EDAF.jpg	6/7/2018 12:13:49 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 13.0

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST74-1-0’-0.5’
	Location ST74-1-2
	Time 11:08 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST74-1- .5’-1’
	Location ST74-1-2
	Time 11:10 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST74-1- 1’-3
	Location ST74-1-2

Time 11:11 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST74-1- 3'-5'

Location ST74-1-2

Time 11:11 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:21 PM

Appendix: Attachments

Attachment #1
IMG_1453C2D7-85C5-4CA2-BEAF-BA60F711EDAF.jpg



Monitoring Technician Log

ID: 2018061940142.0

Title:	ST90-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/2/2018 6:01 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

10:09 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd and I-70 (north)

2 Excavation Location(s)

Location: ST90-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780890@-104.940425

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DCD04A10-7C60-480A-A83F-CFE2B35E0590.jpg	6/19/2018 11:10:56 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

5	Depth to Native Material (feet)	
	Fill and refusal at 14ft	
3	Field Screening/Monitoring	
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 2.6	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ST90-3-0' - 0.5'	
	Location ST90-3-5	
	Time 10:12 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST90-3-0.5' - 1'	
	Location ST90-3-5	
	Time 10:12 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST90-3-1' - 5'

Location ST90-3-5

Time 10:12 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 7

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/02/2018 6:01 PM

Appendix: Attachments

Attachment #1
IMG_DCD04A10-7C60-480A-A83F-CFE2B35E0590.jpg



Monitoring Technician Log

ID: 2018062849463.0

Title:	ST-99-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:16 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

01:44 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 100

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST99-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779688@-104.939305

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_603BE1F9-DB24-4C8F-A3DB-A235F37F1436.jpg	6/28/2018 1:45:03 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 12.7
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST99-2-0' - 0.5'
		Location ST99-2-2
		Time 02:57 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST99-2-0.5' - 1'
		Location ST99-2-2
		Time 02:57 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB -ST99-2- 1' - 3'

Location ST99-2-2

Time 12:50 PM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Time 02:57 PM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:39 PM

Appendix: Attachments

Attachment #1
IMG_603BE1F9-DB24-4C8F-A3DB-A235F37F1436.jpg



Monitoring Technician Log

ID: 2018061959011.0

Title:	ST89-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 2:13 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

03:23 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Median of off ramp from WB 70 to CO BLVD North

2 Excavation Location(s)

Location: ST89-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781624@-104.940327

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3291C636-B583-4801-B81A-00F92E492A09.jpg	6/19/2018 4:24:34 PM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	10ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 5.8	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB-ST89-4- 0' - 0.5'	
	Location ST89-4-5	
	Time 03:25 PM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB-ST89-4 - 0.5' - 1'	
	Location ST89-4-5	
	Time 03:25 PM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB-ST89-4-1' - 5'

Location ST89-4-5

Time 03:25 PM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB-ST89-4-5'-10'

Location ST89-4-5

Time 03:29 PM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 20

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:13 PM

Appendix: Attachments

Attachment #1
IMG_3291C636-B583-4801-B81A-00F92E492A09.jpg



Monitoring Technician Log

ID: 2018061353064.0

Title:	ST98-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 10:58 AM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

01:44 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

In the median between off ramp at CO Blvd and 48th street

2 Excavation Location(s)

Location: ST98-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780616@-104.939211

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8D81DF60-C557-4649-861D-F77539938FDA.jpg	6/13/2018 2:45:36 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 1.4 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST98-3- 0' - 0.5'
		Location ST98-3-2
		Time 01:47 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST98-3 - 0.5' - 1'
		Location ST98-3-2
		Time 01:47 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST98-3 - 1' - 3'
		Location ST98-3-2

Time 01:48 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 01:48 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

TD=1'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 10:58 AM

Appendix: Attachments

Attachment #1
IMG_8D81DF60-C557-4649-861D-F77539938FDA.jpg



Monitoring Technician Log

ID: 2018062843002.0

Title:	ST-94-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:46 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

11:56 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 95

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST94-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778694@-104.940479

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_075707DA-A676-404B-B530-A95561F0D6D2.jpg	6/28/2018 11:57:25 AM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 7
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.9
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST94-4-0' - 0.5'
		Location ST94-4-5
		Time 02:47 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST94-4- 0.5' - 1'
		Location ST94-4-5
		Time 02:47 PM
		Date 06/28/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ST94-4- 1' - 5'

Location ST94-4-5

Time 10:55 AM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:29 PM

Appendix: Attachments

Attachment #1
IMG_075707DA-A676-404B-B530-A95561F0D6D2.jpg



Monitoring Technician Log

ID: 2018061455393.0

Title:	ST68-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:29 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

02:23 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 91

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

On ramp to 70 east

2 Excavation Location(s)

Location: ST68-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779695@-104.941794

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_73656EC2-B6B7-4DFF-8B7C-5B7A6AE8CF53.jpg	6/14/2018 3:24:15 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 4ft

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

Yes

If yes, please explain further Brick or cinder block and slag material

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3BC64C4E-AD0C-4114-A5A2-ACEDBE555620.jpg	6/14/2018 3:34:40 PM

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 4.5

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

2' intervals

Sample ID CSB - ST68-3-0' - 0.5'

Location ST68-3-2

Time 02:25 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST68-3- 0.5' - 1'

Location ST68-3-2

Time 02:25 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST68-3-1' - 3'

Location ST68-3-2

Time 02:25 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST68-3-3' - 5'

Location ST68-3-2

Time 02:25 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:29 PM

Appendix: Attachments

Attachment #1
IMG_3BC64C4E-AD0C-4114-A5A2-ACEDBE555620.jpg



Attachment #2
IMG_73656EC2-B6B7-4DFF-8B7C-5B7A6AE8CF53.jpg



Monitoring Technician Log

ID: 2018061542437.0

Title:	ST96-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:36 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

11:10 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east exit and Colorado Blvd

2 Excavation Location(s)

Location: ST96-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778307@-104.940294

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_416E7BF3-318F-41B0-9DA6-B90A7B46D3BD.jpg	6/15/2018 11:47:55 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

7

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST96-5-0' - 0.5'
		Location ST96-5-5
		Time 11:50 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-5-0.5' - 1'
		Location ST96-5-5
		Time 11:50 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-5-1' - 5'
		Location ST96-5-5

Time 11:50 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST96-5-5'-7'

Location ST96-5-5

Time 11:50 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:36 PM

Appendix: Attachments

Attachment #1
IMG_416E7BF3-318F-41B0-9DA6-B90A7B46D3BD.jpg



Monitoring Technician Log

ID: 2018061356679.0

Title:	ST90-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:08 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

02:44 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 89

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

median between CO Blvd and the off ramp

2 Excavation Location(s)

Location: ST90-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780997@-104.940274

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3A4873DB-A3E5-49F1-BEC5-3FE6AC38F94D.jpg	6/13/2018 3:45:34 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 2.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB-ST90-5- 0' - 0.5'
		Location ST90-5-5
		Time 03:45 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST90-5- 0.5' - 1'
		Location ST90-5-5
		Time 03:45 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST90-5 - 1' - 5'
		Location ST90-5-5

Time 03:45 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:08 PM

Appendix: Attachments

Attachment #1
IMG_3A4873DB-A3E5-49F1-BEC5-3FE6AC38F94D.jpg



Monitoring Technician Log

ID: 2018062553490.0

Title:	ST85-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 5:21 PM (Central Time)

1 General Information

1 Date

06/25/2018

2 Time

01:51 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB CO BLVD

2 Excavation Location(s)

Location: ST85-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777953@-104.940669

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C02161DE-D2DB-4C57-A168-86526257416B.jpg	6/25/2018 2:52:21 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill material at 3ft
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 3.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST85-2 - 0' - 0.5'
		Location ST85-2-2
		Time 01:52 PM
		Date 06/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST85-2 - 0.5' - 1'
		Location ST85-2-2
		Time 01:52 PM
		Date 06/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB-ST85-2 - 1' - 3'

Location ST85-2-2

Time 01:52 PM

Date 06/25/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 02:54 PM

Date 06/25/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 3ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Emily Koenigs - 06/27/2018 5:21 PM

Appendix: Attachments

Attachment #1
IMG_C02161DE-D2DB-4C57-A168-86526257416B.jpg



Monitoring Technician Log

ID: 2018062130687.0

Title:	ST46-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:30 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

08:31 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 62

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vasquez and Colorado BLVD. Road based

2 Excavation Location(s)

Location: ST46-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781576@-104.949754

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D94B2667-F684-4E58-87DE-534BE0E6D0FF.jpg	6/21/2018 8:31:59 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill at 5’	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.5 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB - ST46-3-0' - 0.5'	
	Location ST46-3-2	
	Time 07:32 AM	
	Date 06/21/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST46-3-0.5' - 1'	
	Location ST46-3-2	
	Time 07:32 AM	
	Date 06/21/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST46-3-1' - 3'

Location ST46-3-2

Time 07:32 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST46-3-3' - 5'

Location ST46-3-2

Time 07:32 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

TD 4'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:30 PM

Appendix: Attachments

Attachment #1
IMG_D94B2667-F684-4E58-87DE-534BE0E6D0FF.jpg



Monitoring Technician Log

ID: 2018062035297.0

Title:	ST95-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:21 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

08:48 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST95-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778612@-104.940358

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_99261FB2-F3FF-4640-9BFA-1CA9BDBD5F91.jpg	6/20/2018 9:52:54 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

11

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		Yes
		If yes, please explain further Glass
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.3 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST95-3-0' - 0.5'
		Location ST95-3-5
		Time 08:53 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST95-3-0.5' - 1'
		Location ST95-3-5
		Time 08:53 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST95-3-1' - 5'

Location ST95-3-5

Time 08:53 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST95-3-5'-10'

Location ST95-3-5

Time 09:05 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST95-3-10'-12'

Location ST95-3-5

Time 09:05 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:21 PM

Appendix: Attachments

Attachment #1
IMG_99261FB2-F3FF-4640-9BFA-1CA9BDBD5F91.jpg



Monitoring Technician Log

ID: 2018061359675.0

Title:	ST91-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:00 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

03:34 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Median between CO Blvd and off ramp

2 Excavation Location(s)

Location: ST91-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781053@-104.939972

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C3931C9D-86AD-4929-BF16-E252A55F4B38.jpg	6/13/2018 4:36:09 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 3.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB-ST91-5 - 0' - 0.5'
		Location ST91-5-5
		Time 03:38 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST91-5- 0.5' - 1'
		Location ST91-5-5
		Time 03:38 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST91-5- 1' - 5'
		Location ST91-5-5

Time 08:44 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:00 PM

Appendix: Attachments

Attachment #1
IMG_C3931C9D-86AD-4929-BF16-E252A55F4B38.jpg



Monitoring Technician Log

ID: 2018061949030.0

Title:	ST80-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 2:11 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

03:06 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 83

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB lane CO BLVD near north bridge abutment

2 Excavation Location(s)

Location: ST80-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780585@-104.940645

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0803DBD8-1E2D-477B-AA94-A5D9AE4CA302.jpg	6/19/2018 3:23:06 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill material at 5ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 6.4	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB -ST80-1- 0' - 0.5'	
	Location ST80-1-2	
	Time 03:07 PM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB -ST80-1- 0.5' - 1'	
	Location ST80-1-2	
	Time 03:07 PM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST80-1-1' - 3'

Location ST80-1-2

Time 03:07 PM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB -ST80-1- 3' - 5'

Location ST80-1-2

Time 03:07 PM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:11 PM

Appendix: Attachments

Attachment #1
IMG_0803DBD8-1E2D-477B-AA94-A5D9AE4CA302.jpg



Monitoring Technician Log

ID: 2018061551736.0

Title:	ST48-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:34 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

01:22 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 93

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Steele and 46th. Road based

2 Excavation Location(s)

Location: ST48-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779829@-104.949772

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F5487BC9-EDD0-4481-BAF8-700BAEBD7FED.jpg	6/15/2018 2:26:11 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill at 4’	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.9 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB - ST48-1--0' - 0.5'	
	Location ST48-1-2	
	Time 01:26 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST48-1-0.5' - 1'	
	Location ST48-1-2	
	Time 01:26 PM	
	Date 06/15/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST48-1-1' - 3'

Location ST48-1-2

Time 02:26 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 02:26 PM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 0’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:34 PM

Appendix: Attachments

Attachment #1
IMG_F5487BC9-EDD0-4481-BAF8-700BAEBD7FED.jpg



Monitoring Technician Log

ID: 2018062844036.0

Title:	ST-94-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/9/2018 5:26 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

12:13 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 95

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST94-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779028@-104.940488

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7E22734B-5673-432A-92BE-7FADB1332100.jpg	6/28/2018 12:14:37 PM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 13.5
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST94-2- 0' - 0.5'
		Location ST94-2-5
		Time 12:32 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST94-2- 0.5' - 1'
		Location ST94-2-5
		Time 12:32 PM
		Date 06/28/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ST94-2- 1' - 5'

Location ST94-2-5

Time 11:12 AM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:26 PM

Appendix: Attachments

Attachment #1
IMG_7E22734B-5673-432A-92BE-7FADB1332100.jpg



Monitoring Technician Log

ID: 2018060742672.0

Title:	ST75-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:17 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:51 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST75-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781622@-104.941118

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_77592AE4-36FC-4487-A901-211772BFF2A1.jpg	6/7/2018 11:51:41 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST75-2- 0’-0.5’
	Location ST75-2-2
	Time 10:53 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST75-2- .5’-1’
	Location ST75-2-2
	Time 10:55 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST75-2- 1’-3’
	Location ST75-2-2

Time 10:55 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:17 PM

Appendix: Attachments

Attachment #1
IMG_77592AE4-36FC-4487-A901-211772BFF2A1.jpg



Monitoring Technician Log

ID: 2018060737174.0

Title:	ST41-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:16 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

09:19 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 73

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST41-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781291@-104.950290

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D9373A9B-FF74-4F72-9D3E-1950EF085EB0.jpg	6/7/2018 10:20:37 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST41-4-0'-0.5'
	Location ST41-4-5
	Time 09:21 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST41-4-.5'-1'
	Location ST41-4-5
	Time 09:23 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST41-4-1'-5'
	Location ST41-4-5

Time 09:23 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:16 PM

Appendix: Attachments

Attachment #1
IMG_D9373A9B-FF74-4F72-9D3E-1950EF085EB0.jpg



Monitoring Technician Log

ID: 2018061436835.0

Title:	ST91-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:15 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

09:13 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Partly Cloudy

5 Descriptions of Work Activities

Hand dig

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274

2 Excavation Location(s)

Location: ST91-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780694@-104.940190

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6F7A25B5-A4BC-49C3-87E9-E5FA03AD93F4.jpg	6/14/2018 10:15:39 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 1’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST91-2- 0' - 0.5'
		Location ST91-2-5
		Time 09:16 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST91-2-0.5' - 1'
		Location ST91-2-5
		Time 09:16 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID N/a
		Time 10:16 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 10

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:15 PM

Appendix: Attachments

Attachment #1
IMG_6F7A25B5-A4BC-49C3-87E9-E5FA03AD93F4.jpg



Monitoring Technician Log

ID: 2018061931763.0

Title:	ST75-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:59 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

07:49 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd

2 Excavation Location(s)

Location: ST75-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781664@-104.940869

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_05868E4E-ACC4-4435-BE1A-0706CD46A9E3.jpg	6/19/2018 8:49:47 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 14.1 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - 0' - 0.5'
		Location ST75-3-2
		Time 07:51 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST75-3-0.5' - 1'
		Location ST75-3-2
		Time 07:51 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST75-3-1' - 3'
		Location ST75-3-2

Time 07:51 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST75-3-3' - 5'

Location ST75-3-2

Time 07:51 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 4ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:59 PM

Appendix: Attachments

Attachment #1
IMG_05868E4E-ACC4-4435-BE1A-0706CD46A9E3.jpg



Monitoring Technician Log

ID: 2018060637127.0

Title:	ST48-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:38 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

09:18 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Southeast corner of Steele

2 Excavation Location(s)

Location: ST48-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779618@-104.949611

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6545A4B9-217E-449C-8CC7-1401978BFFD8.jpg	6/6/2018 10:20:26 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.9ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID N/A	
	Location N/a	
	Time 10:38 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST48-4-0’-0.5’; .5’-1’; 1’-3’; 3’-5’	
	Location ST48-4-2	
	Time 09:41 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:38 PM

Appendix: Attachments

Attachment #1
IMG_6545A4B9-217E-449C-8CC7-1401978BFFD8.jpg



Monitoring Technician Log

ID: 2018061354329.0

Title:	ST97-7-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:07 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

03:05 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

East side of 48th st

2 Excavation Location(s)

Location: ST97-7-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781460@-104.939700

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DA077FE9-1990-46D1-A910-9AB31701B61B.jpg	6/13/2018 3:06:06 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Native at 3'. Excavation depth at 2'.

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST97-7- 0' - 0.5'
		Location ST97-7-2
		Time 02:08 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST97-7- 0.5' - 1'
		Location ST97-7-2
		Time 03:08 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST97-7- 1' - 3'
		Location ST97-7-2

Time 03:08 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Time 03:08 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth at 2'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:07 PM

Appendix: Attachments

Attachment #1
IMG_DA077FE9-1990-46D1-A910-9AB31701B61B.jpg



Monitoring Technician Log

ID: 2018061335965.0

Title:	ST71-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:09 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

08:59 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 69

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado BLVD and 48th. East median

2 Excavation Location(s)

Location: ST71-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.783145@-104.940270

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AA68966A-FA67-4B2C-9384-B2C496BE3768.jpg	6/13/2018 9:59:50 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.0 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB -ST71-4-0' - 0.5'
		Location ST71-4-2
		Time 09:03 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST71-4-0.5' - 1'
		Location ST71-4-2
		Time 10:08 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST71-4-1' - 3'
		Location ST71-4-2

Time 09:04 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 10:08 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:09 PM

Appendix: Attachments

Attachment #1
IMG_AA68966A-FA67-4B2C-9384-B2C496BE3768.jpg



Monitoring Technician Log

ID: 2018061941282.0

Title:	ST88-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 10:41 AM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

10:28 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

NB Lane CO BLVD

2 Excavation Location(s)

Location: ST88-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781745@-104.940431

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_85392D3F-81BA-41B7-84F0-41215260F267.jpg	6/19/2018 11:29:26 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	9	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 5.7	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB-ST88-3- 0' - 0.5'	
	Location ST88-3-5	
	Time 10:30 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB-ST88-3 - 0.5' - 1'	
	Location ST88-3-5	
	Time 10:30 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB-ST88-3- 1' - 5'

Location ST88-3-5

Time 10:30 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB-ST88-3-5'-9'

Location ST88-3-5

Time 11:35 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 13

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 10:41 AM

Appendix: Attachments

Attachment #1
IMG_85392D3F-81BA-41B7-84F0-41215260F267.jpg



Monitoring Technician Log

ID: 2018060653553.0

Title:	ST41-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 3:10 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

01:52 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

In field, northwest corner of Steele and 46th

2 Excavation Location(s)

Location: ST41-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780850@-104.950291

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0827E341-0D96-4FC7-B8CC-B06B5DB7EF9A.jpg	6/6/2018 2:54:11 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 28.6 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID CSB-ST41-6 (5’ intervals including 0’-0.5’; .5’-1’; 1’-5’)
		Location ST41-6-5
		Time 02:55 PM
		Date 06/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Mia Steenkamp - 06/27/2018 3:10 PM

Appendix: Attachments

Attachment #1
IMG_0827E341-0D96-4FC7-B8CC-B06B5DB7EF9A.jpg



Monitoring Technician Log

ID: 2018061940579.0

Title:	ST90-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 2:06 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

10:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd (north)

2 Excavation Location(s)

Location: ST90-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781197@-104.940428

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AE89DACB-DE46-4C40-AA6F-7965A03AF608.jpg	6/19/2018 11:17:54 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill material and refusal at 11ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 4.0	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ST90-1-0' - 0.5'	
	Location ST90-1-5	
	Time 10:18 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST90-1-0.5' - 1'	
	Location ST90-1-5	
	Time 10:18 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST90-1-1' - 5'

Location ST90-1-5

Time 10:18 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST90-1-5' - 10'

Location ST90-1-5

Time 10:00 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST90-1-10' - 11'

Location ST90-1-5

Time 10:00 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 11ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:06 PM

Appendix: Attachments

Attachment #1
IMG_AE89DACB-DE46-4C40-AA6F-7965A03AF608.jpg



Monitoring Technician Log

ID: 2018060452633.0

Title:	ST65-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:22 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

02:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ST65-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779443@-104.944238

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5’ (TD 1')

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID n/a
	Time 02:41 PM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST65-2 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
	Location ST65-2-2
	Time 01:10 PM
	Date 06/04/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:22 PM

Monitoring Technician Log

ID: 2018060744188.0

Title:	ST73-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:14 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

11:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 82

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST73-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782389@-104.941067

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A984A30D-D0C7-4471-92EF-675C7252AA74.jpg	6/7/2018 12:17:38 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST73-1-2 0’-0.5’
	Location ST73-1-2
	Time 11:17 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST73-1-2 .5’-1’
	Location ST73-1-2
	Time 11:20 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST73-1-2 1’-3’
	Location ST73-1-2

Time 11:20 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:14 PM

Appendix: Attachments

Attachment #1
IMG_A984A30D-D0C7-4471-92EF-675C7252AA74.jpg



Monitoring Technician Log

ID: 2018062140131.0

Title:	ST44-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:31 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

10:08 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Premier tire terminal and Steele

2 Excavation Location(s)

Location: ST44-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782018@-104.949298

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_252284D6-1ADD-4BA1-AA3C-141317B57E1B.jpg	6/21/2018 11:09:52 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.3 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST44-4-0' - 0.5'
		Location ST44-4-2
		Time 10:10 AM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST44-4-0.5' - 1'
		Location ST44-4-2
		Time 11:10 AM
		Date 06/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST44-4-1' - 3'
		Location ST44-4-2

Time 10:10 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Time 11:10 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 3’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:31 PM

Appendix: Attachments

Attachment #1
IMG_252284D6-1ADD-4BA1-AA3C-141317B57E1B.jpg



Monitoring Technician Log

ID: 2018060558090.0

Title:	ST55-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:58 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

03:08 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Cook st

2 Excavation Location(s)

Location: ST55-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779387@-104.947759

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4’

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCS 25.1 @ 1'-3' VOCS 17.3 @ 3'-5'

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID NA
	Location NA
	Time 04:27 PM
	Date 06/05/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST55-3-0'-0.5'
	Location ST55-3-2
	Time 03:36 PM
	Date 06/05/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST55-3-0.5'-1'

Location ST55-3-2

Time 03:36 PM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST55-3-1'-3'

Location ST 55-3-2

Time 03:36 PM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST55-3-3'-5'

Location ST 55-3-2

Time 03:36 PM

Date 06/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:58 PM

Monitoring Technician Log

ID: 2018062841673.0

Title:	ST-96-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:49 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

11:34 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST96-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778504@-104.940446

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AD8F9609-2704-4679-822F-D3588D1A6258.jpg	6/28/2018 11:35:10 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 7
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.6
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST96-2-0' - 0.5'
		Location ST96-2-5
		Time 05:21 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-2-0.5' - 1'
		Location ST96-2-5
		Time 05:21 PM
		Date 06/28/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB -ST96-2-1' - 5'

Location ST96-2-5

Time 10:45 AM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:23 PM

Appendix: Attachments

Attachment #1
IMG_AD8F9609-2704-4679-822F-D3588D1A6258.jpg



Monitoring Technician Log

ID: 2018061453244.0

Title:	ST81-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:16 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

01:47 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 91

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

In between on ramp to 70 east and CO Blvd

2 Excavation Location(s)

Location: ST81-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779591@-104.941346

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C8A31EF4-8414-4D97-BD0D-E77F3E74D1A7.jpg	6/14/2018 2:49:02 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

7

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 9.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST81-2 - 0' - 0.5'
		Location ST81-2-2
		Time 01:49 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST81-2- 0.5' - 1'
		Location ST81-2-2
		Time 01:50 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST81-2- 1' - 3'
		Location ST81-2-2

Time 01:50 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST81-2 - 3' - 5'

Location ST81-2-2

Time 01:50 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB-ST81-2 - 5'-7'

Location ST81-2-2

Time 02:01 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 5ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:16 PM

Appendix: Attachments

Attachment #1
IMG_C8A31EF4-8414-4D97-BD0D-E77F3E74D1A7.jpg



Monitoring Technician Log

ID: 2018060441227.0

Title:	ST63-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:15 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

11:27 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ST63-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779908@-104.945089

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.5	

4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ST63-1 (2’ interval including 0’-0.5’; .5’-1’, 1’-3’, 3’-5’)	
	Location ST63-1-2	
	Time 11:29 AM	
	Date 06/04/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:15 PM	

Monitoring Technician Log

ID: 2018061934617.0

Title:	ST82-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:49 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

08:36 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd and I-70 east exit

2 Excavation Location(s)

Location: ST82-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779187@-104.940911

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D5EE0E55-4D89-4242-8795-D33907762032.jpg	6/19/2018 9:37:31 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.9 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST82-2-0' - 0.5'
		Location ST82-2-2
		Time 08:38 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST82-2-0.5' - 1'
		Location ST82-2-2
		Time 08:38 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST82-2-1' - 3'
		Location ST82-2-2

Time 08:38 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST82-2-3' - 5'

Location ST82-2-2

Time 08:38 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 5ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:49 PM

Appendix: Attachments

Attachment #1
IMG_D5EE0E55-4D89-4242-8795-D33907762032.jpg



Monitoring Technician Log

ID: 2018060637834.0

Title:	ST49-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:39 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

09:30 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

West corner of 45th and Steele

2 Excavation Location(s)

Location: ST49-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778988@-104.950021

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_16A97136-FCFB-4F59-A88A-F07CA50CA261.jpg	6/6/2018 10:31:58 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 12.7 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID N/A	
	Location N/A	
	Time 09:32 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST49-3-0’-0.5’; .5’-1’; 1’-3’	
	Location ST49-3-2	
	Time 10:36 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

3	Additional Comments

Excavation depth is 1’

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:39 PM

Appendix: Attachments

Attachment #1
IMG_16A97136-FCFB-4F59-A88A-F07CA50CA261.jpg



Monitoring Technician Log

ID: 2018061331067.0

Title:	ST78-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:09 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

07:37 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 69

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado BLvd, near 48th. On median

2 Excavation Location(s)

Location: ST78-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781250@-104.940841

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3189270F-88D4-41F9-ACC5-C1E8042332F7.jpg	6/13/2018 9:00:39 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at TD=3’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB -ST78-3-0' - 0.5'
		Location ST78-3-2
		Time 07:41 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST78-3-0.5' - 1'
		Location ST78-3-2
		Time 07:41 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST78-3- 1' - 3'
		Location ST78-3-2

Time 07:41 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/A

Time 09:02 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth is 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:09 PM

Appendix: Attachments

Attachment #1
IMG_3189270F-88D4-41F9-ACC5-C1E8042332F7.jpg



Monitoring Technician Log

ID: 2018060445522.0

Title:	ST58-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	4 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 3:24 PM (Central Time)

1 General Information

1 Date

06/04/2018

2 Time

12:38 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Jackson

2 Excavation Location(s)

Location: ST58-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779787@-104.945195

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

4’

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID CSB-ST58-4 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3'-5')	
	Location ST58-4-2	
	Time 12:57 PM	
	Date 06/04/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	
5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 06/23/2018 3:24 PM	

Monitoring Technician Log

ID: 2018061940830.0

Title:	ST89-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 2:08 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

11:20 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd (north)

2 Excavation Location(s)

Location: ST89-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781500@-104.940385

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9A091BBF-955A-4E2C-80FE-A5D7AE91124A.jpg	6/19/2018 11:21:09 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)
	10

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	Yes
	If yes, please explain further Glass, plastic
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 2.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB - ST89-2-0' - 0.5'
	Location ST89-2-5
	Time 11:21 AM
	Date 06/19/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST89-2-0.5' - 1'
	Location ST89-2-5
	Time 11:21 AM
	Date 06/19/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST89-2-1' - 5'

Location ST89-2-5

Time 11:21 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST89-2-5'-10'

Location ST89-2-5

Time 11:33 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 14

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:08 PM

Appendix: Attachments

Attachment #1
IMG_9A091BBF-955A-4E2C-80FE-A5D7AE91124A.jpg



Monitoring Technician Log

ID: 2018062845529.0

Title:	ST-93-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:44 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

12:38 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 95

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST93-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779551@-104.940461

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6984E79E-F0E9-4614-9B41-4D6E5CAF6422.jpg	6/28/2018 12:39:38 PM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 15.0
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST93-1-0' - 0.5'
		Location ST93-1-5
		Time 02:55 PM
		Date 06/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-1-0.5' - 1'
		Location ST93-1-5
		Time 02:55 PM
		Date 06/28/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB -ST93-1- 1' - 5'

Location ST93-1-5

Time 11:49 AM

Date 06/28/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:32 PM

Appendix: Attachments

Attachment #1
IMG_6984E79E-F0E9-4614-9B41-4D6E5CAF6422.jpg



Monitoring Technician Log

ID: 2018060550972.1

Title:	ST42-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:21 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

02:09 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Email: kmoore@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

Comments: ST not ML

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

E corner of 46th and Steele

2 Excavation Location(s)

Location: ML42-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779900@-104.950704

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_23762D02-1B4F-4FD1-8EE8-4E92CC8C969F.jpg	6/5/2018 2:11:01 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0-0.5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 36.8 @ 3-5 ft 49.1 @ 1-3ft
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Sample ID n/a
		Time 02:11 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add Another
		Sample ID CSB- ST42-2 (2’ intervals including 0’-0.5’; .5’-1’; 1’-3’; 3’-5’)
		Location ST42-2-2
		Time 02:21 PM
		Date 06/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:44 PM

Appendix: Attachments

Attachment #1
IMG_23762D02-1B4F-4FD1-8EE8-4E92CC8C969F.jpg



Monitoring Technician Log

ID: 2018062140499.0

Title:	ST43-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:31 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

10:15 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Steele and side st (Premier Tire Terminal)

2 Excavation Location(s)

Location: ST43-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782407@-104.948856

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EA6A359A-58CE-4BD3-B4B4-85021001B864.jpg	6/21/2018 11:17:15 AM
IMG_7F3E0112-05C2-47F6-8FC0-747D20EA4882.jpg	6/21/2018 11:17:25 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)

3

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.3 ppm

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

2' intervals

Sample ID CSB - ST43-3-0' - 0.5'

Location ST43-3-2

Time 11:19 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST43-3-0.5' - 1'

Location ST43-3-2

Time 11:19 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST43-3-1' - 3'

Location ST43-3-2

Time 11:19 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 11:19 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 2’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:31 PM

Appendix: Attachments

Attachment #1
IMG_EA6A359A-58CE-4BD3-B4B4-85021001B864.jpg



Attachment #2
IMG_7F3E0112-05C2-47F6-8FC0-747D20EA4882.jpg



Monitoring Technician Log

ID: 2018061541173.0

Title:	ST96-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:36 PM (Central Time)

1 General Information

1 Date

06/15/2018

2 Time

11:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado and I-70 east exit

2 Excavation Location(s)

Location: ST96-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778351@-104.939987

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1F7FBA8F-A504-4418-9FC2-CB76E0E1A655.jpg	6/15/2018 11:26:40 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.5 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST96-9-0' - 0.5'
		Location ST96-9-5
		Time 10:30 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-9-0.5' - 1'
		Location ST96-9-5
		Time 10:30 AM
		Date 06/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST96-9-1' - 5'
		Location ST96-9-5

Time 10:30 AM

Date 06/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:36 PM

Appendix: Attachments

Attachment #1
IMG_1F7FBA8F-A504-4418-9FC2-CB76E0E1A655.jpg



Monitoring Technician Log

ID: 2018061434081.1

Title:	ST91-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:29 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:28 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

Comments: Should be ST

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 and exit 274

2 Excavation Location(s)

Location: ST91-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780668@-104.939811

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D1161B93-62FF-4395-ABB2-61657928E8E7.jpg	6/14/2018 9:37:43 AM

5	Depth to Native Material (feet)	
	1	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.0 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB -ST91-9-0' - 0.5'	
	Location ST91-9-5	
	Time 08:29 AM	
	Date 06/14/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB -ST91-9-0.5' - 1'	
	Location ST91-9-5	
	Time 08:29 AM	
	Date 06/14/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB -ST91-9-1' - 5'

Location ST91-9-5

Time 08:29 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 0

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:29 PM

Appendix: Attachments

Attachment #1
IMG_D1161B93-62FF-4395-ABB2-61657928E8E7.jpg



Monitoring Technician Log

ID: 2018062036417.0

Title:	ST94-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:11 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

09:06 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST94-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778935@-104.940205

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_06CFB6C0-E09C-4843-90DB-28E582E159E3.jpg	6/20/2018 10:07:48 AM
IMG_5B5BD9F2-2944-4B76-963C-20005FED337D.jpg	6/20/2018 10:07:57 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	4	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.3	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ST94-8-0' - 0.5'	
	Location ST94-8-5	
	Time 10:08 AM	
	Date 06/20/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST94-8-0.5' - 1'	
	Location ST94-8-5	
	Time 10:08 AM	
	Date 06/20/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST94-8-1' - 5'

Location ST94-8-5

Time 10:08 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:11 PM

Appendix: Attachments

Attachment #1
IMG_5B5BD9F2-2944-4B76-963C-20005FED337D.jpg



Attachment #2
IMG_06CFB6C0-E09C-4843-90DB-28E582E159E3.jpg



Monitoring Technician Log

ID: 2018061452453.1

Title:	ST92-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 10:37 AM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

01:34 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST92-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779714@-104.941096

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8BDD1DCA-FE6A-4A56-B14C-48D1EFF4837D.jpg	6/14/2018 2:38:33 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB ST92-1-0' - 0.5'
		Location ST92-1-2
		Time 01:36 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST92-1 - 0.5' - 1'
		Location ST92-1-2
		Time 01:37 PM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST92-1- 1' - 3'
		Location ST92-1-2

Time 01:38 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST92-1- 3' - 5'

Location ST92-1-2

Time 01:38 PM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 4

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 10:37 AM

Appendix: Attachments

Attachment #1
IMG_8BDD1DCA-FE6A-4A56-B14C-48D1EFF4837D.jpg



Monitoring Technician Log

ID: 2018062840235.0

Title:	ST-87-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:45 PM (Central Time)

1 General Information

1 Date

06/28/2018

2 Time

11:10 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.776719@-104.940494

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3CAC4DE1-CDFD-4202-84CA-72DF0070D607.jpg	6/28/2018 11:10:59 AM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 3

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.9	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	
5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.	
	Submit Initiated By: Mia Steenkamp - 07/10/2018 2:44 PM	

Appendix: Attachments

Attachment #1
IMG_3CAC4DE1-CDFD-4202-84CA-72DF0070D607.jpg



Monitoring Technician Log

ID: 2018061333093.0

Title:	ST72-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:03 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

08:11 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 69

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd and 48th, on median

2 Excavation Location(s)

Location: ST72-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782734@-104.940826

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_132730CD-05D8-49FA-9CEB-22902D2B2C1C.jpg	6/13/2018 9:12:24 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2ft

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 14.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST72-1- 0' - 0.5'
		Location ST72-1-2
		Time 08:21 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST72-1- 0.5' - 1'
		Location ST72-1-2
		Time 08:21 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST72-1-1' - 3'
		Location ST72-1-2

Time 08:21 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 09:34 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth at 3'. Samples duplicated due to stand alone hole.

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:03 PM

Appendix: Attachments

Attachment #1
IMG_132730CD-05D8-49FA-9CEB-22902D2B2C1C.jpg



Monitoring Technician Log

ID: 2018062132478.0

Title:	ST43-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:33 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

08:01 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Steele st. By motel, road based

2 Excavation Location(s)

Location: ST43-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782548@-104.949104

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_661822A3-CBE5-492B-85B9-B58311A0E7A5.jpg	6/21/2018 9:04:27 AM
IMG_933683A1-4268-46D3-B40D-BD8E33D0636C.jpg	6/21/2018 9:04:34 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

2' intervals

Sample ID CSB - ST43-1-0' - 0.5'

Location ST43-1-2

Time 08:05 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST43-1-0.5' - 1'

Location ST43-1-2

Time 08:05 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST43-1-1' - 3'

Location ST43-1-2

Time 08:05 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 09:05 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:33 PM

Appendix: Attachments

Attachment #1
IMG_661822A3-CBE5-492B-85B9-B58311A0E7A5.jpg



Attachment #2
IMG_933683A1-4268-46D3-B40D-BD8E33D0636C.jpg



Monitoring Technician Log

ID: 2018062038798.0

Title:	ST93-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:07 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

10:46 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST93-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779487@-104.940235

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4182D8AF-80EC-4467-8318-DC8EFC01BF26.jpg	6/20/2018 10:47:04 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST93-5-0' - 0.5'
		Location ST93-5-5
		Time 10:47 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-5-0.5' - 1'
		Location ST93-5-5
		Time 10:47 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-5-1' - 5'
		Location ST93-5-5

Time 10:47 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:07 PM

Appendix: Attachments

Attachment #1
IMG_4182D8AF-80EC-4467-8318-DC8EFC01BF26.jpg



Monitoring Technician Log

ID: 2018061935726.0

Title:	ST83-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:55 PM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

08:55 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 exit to Colorado Blvd (south)

2 Excavation Location(s)

Location: ST83-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778743@-104.940814

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BC9EB4E0-B6CB-4E1B-BA16-02C642DE1651.jpg	6/19/2018 9:56:04 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.1 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST83-2-0' - 0.5'
		Location ST83-2-2
		Time 08:57 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST83-2-0.5' - 1'
		Location ST83-2-2
		Time 08:57 AM
		Date 06/19/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST83-2-1' - 3'
		Location ST83-2-2

Time 09:57 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST83-2-3' - 5'

Location ST83-2-2

Time 08:57 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 4ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:55 PM

Appendix: Attachments

Attachment #1
IMG_BC9EB4E0-B6CB-4E1B-BA16-02C642DE1651.jpg



Monitoring Technician Log

ID: 2018062036936.0

Title:	ST93-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:15 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

09:15 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST93-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779305@-104.940064

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DEEFADCC-2A07-4A22-A011-BB4D5827E0F5.jpg	6/20/2018 10:16:27 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST93-9-0' - 0.5'
		Location ST93-9-5
		Time 10:16 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-9-0.5' - 1'
		Location ST93-9-5
		Time 10:16 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-9-1' - 5'
		Location ST93-9-5

Time 10:16 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:15 PM

Appendix: Attachments

Attachment #1
IMG_DEEFADCC-2A07-4A22-A011-BB4D5827E0F5.jpg



Monitoring Technician Log

ID: 2018062640744.0

Title:	ST87-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 5:16 PM (Central Time)

1 General Information

1 Date

06/26/2018

2 Time

10:19 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 85

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB CO BLVD

2 Excavation Location(s)

Location: ST87-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.776837@-104.940686

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_409551E0-0D01-40DB-8BB2-67D0E50356AA.jpg	6/26/2018 11:19:48 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill material at 1ft
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 5.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB ST87-2-2-0' - 0.5'
		Location ST87-2-2
		Time 10:20 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST87-2-2- 0.5' - 1'
		Location ST87-2-2
		Time 10:20 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB ST87-2-2- 1' - 3'

Location ST87-2-2

Time 10:20 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID NA

Location NA

Time 12:00 PM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 1ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Emily Koenigs - 06/27/2018 5:16 PM

Appendix: Attachments

Attachment #1
IMG_409551E0-0D01-40DB-8BB2-67D0E50356AA.jpg



Monitoring Technician Log

ID: 2018060741131.0

Title:	ST76-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:35 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:25 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST76-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781038@-104.941184

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3F223FAC-351E-4F23-89F8-ACE691777E9D.jpg	6/7/2018 11:26:10 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5'

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.0

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST76-4-0'-0.5'
	Location ST76-4-2
	Time 10:26 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST76-4- .5'-1'
	Location ST76-4-2
	Time 10:28 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST76-4-1'-3'
	Location ST76-4-2

Time 10:28 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

TD 1'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:34 PM

Appendix: Attachments

Attachment #1
IMG_3F223FAC-351E-4F23-89F8-ACE691777E9D.jpg



Monitoring Technician Log

ID: 2018060556594.0

Title:	ST57-5-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 3:53 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

02:43 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Manna Pro parking lot. Corner of Madison and 46th

2 Excavation Location(s)

Location: ST57-5-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779869@-104.946885

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C9257B87-89ED-4853-9B96-1ADD07D5BF29.jpg	6/5/2018 3:44:32 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	0-0.5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs at 29.3 @1'-3' VOCs at 30.6 @ 3'-5'	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID N/a	
	Location N/a	
	Time 03:45 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST57-5-0'-0.5'; .5'-1'; 1'-3'; 3'-5'	
	Location ST57-5-2	
	Time 02:53 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	

Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 3:53 PM

Appendix: Attachments

Attachment #1
IMG_C9257B87-89ED-4853-9B96-1ADD07D5BF29.jpg



Monitoring Technician Log

ID: 2018062553083.0

Title:	ST84-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 5:20 PM (Central Time)

1 General Information

1 Date

06/25/2018

2 Time

01:44 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 84

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB CO Blvd

2 Excavation Location(s)

Location: ST84-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778280@-104.940671

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4999B1A4-B0FC-4AFD-A21C-CE668E59DE31.jpg	6/25/2018 2:45:58 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill material at 5ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 1.9	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB-ST84-2 - 0' - 0.5'	
	Location ST84-2-2	
	Time 01:46 PM	
	Date 06/25/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB-ST84-2 - 0.5' - 1'	
	Location ST84-2-2	
	Time 01:46 PM	
	Date 06/25/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB-ST84-2 - 1' - 3'

Location ST84-2-2

Time 01:46 PM

Date 06/25/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST84-2 - 3' - 5’

Location ST84-2-2

Time 01:46 PM

Date 06/25/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 4

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Emily Koenigs - 06/27/2018 5:20 PM

Appendix: Attachments

Attachment #1
IMG_4999B1A4-B0FC-4AFD-A21C-CE668E59DE31.jpg



Monitoring Technician Log

ID: 2018062039513.0

Title:	ST93-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:06 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

10:58 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST93-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779493@-104.940210

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_84805F9E-8B38-4C80-9B04-413E671B7691.jpg	6/20/2018 10:58:54 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST93-7-0' - 0.5'
		Location ST93-7-5
		Time 10:59 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-7-0.5' - 1'
		Location ST93-7-5
		Time 10:59 AM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST93-7-1' - 5'
		Location ST93-7-5

Time 10:59 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:06 PM

Appendix: Attachments

Attachment #1
IMG_84805F9E-8B38-4C80-9B04-413E671B7691.jpg



Monitoring Technician Log

ID: 2018062638241.1

Title:	ST85-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:52 PM (Central Time)

1 General Information

1 Date

06/26/2018

2 Time

09:37 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 81

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

SB CO BLVD

2 Excavation Location(s)

Location: ST85-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777712@-104.940693

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2677D47D-8171-4AF1-A6BF-FE4433229920.jpg	6/26/2018 10:38:26 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill material at 4ft
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 7.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST85-4 - 0' - 0.5'
		Location ST85-4-2
		Time 09:40 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST85-4 - 0.5' - 1'
		Location ST85-4-2
		Time 09:40 AM
		Date 06/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB-ST85-4 - 1' - 3'

Location ST85-4-2

Time 09:40 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB-ST85-4 - 3'-5'

Location ST85-4-2

Time 09:40 AM

Date 06/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth: 4ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Emily Koenigs - 06/27/2018 5:15 PM

Appendix: Attachments

Attachment #1
IMG_2677D47D-8171-4AF1-A6BF-FE4433229920.jpg



Monitoring Technician Log

ID: 2018060637379.0

Title:	ST49-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 4:40 PM (Central Time)

1 General Information

1 Date

06/06/2018

2 Time

09:22 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 72

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Conoco parking lot, Steele and 45th

2 Excavation Location(s)

Location: ST49-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778761@-104.949655

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C1DAD28B-9C24-43D7-9565-BF5E56CEBE85.jpg	6/6/2018 10:25:10 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill at 5ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 14.9	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID N/a	
	Location N/a	
	Time 10:27 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST49-4-0’-0.5’; .5’-1’; 1’-3’	
	Location ST49-4-2	
	Time 09:56 AM	
	Date 06/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

3	Additional Comments

Excavation depth 2’

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:40 PM

Appendix: Attachments

Attachment #1
IMG_C1DAD28B-9C24-43D7-9565-BF5E56CEBE85.jpg



Monitoring Technician Log

ID: 2018062133303.0

Title:	ST44-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:38 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

08:15 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Steele st. By Motel. Road based

2 Excavation Location(s)

Location: ST44-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782221@-104.949454

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_13780F76-913F-4606-9FC7-5C00F4304D14.jpg	6/21/2018 9:15:39 AM
IMG_66B666EF-09FC-4156-8ADB-19782ABB363B.jpg	6/21/2018 9:15:53 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7 ppm

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

2' intervals

Sample ID CSB - ST44-2-0' - 0.5'

Location ST44-2-2

Time 08:20 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST44-2-0.5' - 1'

Location ST44-2-2

Time 08:20 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST44-2-1' - 3'

Location ST44-2-2

Time 08:20 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 08:20 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 3’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:38 PM

Appendix: Attachments

Attachment #1
IMG_13780F76-913F-4606-9FC7-5C00F4304D14.jpg



Attachment #2
IMG_66B666EF-09FC-4156-8ADB-19782ABB363B.jpg



Monitoring Technician Log

ID: 2018062137582.0

Title:	ST45-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:38 PM (Central Time)

1 General Information

1 Date

06/21/2018

2 Time

09:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 64

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Steele and fencing by Premier Tire Terminal

2 Excavation Location(s)

Location: ST45-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781640@-104.949609

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_14172EC9-6D7F-4719-8CEE-055F1D4CA2FC.jpg	6/21/2018 10:26:52 AM
IMG_0EC61648-19B1-4CD9-A852-DDBF0F1795AE.jpg	6/21/2018 10:27:03 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Make sure it will be composited with The rest of the ST45's. Teagan marked location in a dark blue cell.

5	Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.0 ppm

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

2' intervals

Sample ID CSB - ST45-4-0' - 0.5'

Location ST45-4-2

Time 09:29 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST45-4-0.5' - 1'

Location ST45-4-2

Time 09:29 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST45-4-1' - 3'

Location ST45-4-2

Time 09:29 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST45-4-3' - 5'

Location ST45-4-2

Time 09:29 AM

Date 06/21/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:38 PM

Appendix: Attachments

Attachment #1
IMG_0EC61648-19B1-4CD9-A852-DDBF0F1795AE.jpg



Attachment #2
IMG_14172EC9-6D7F-4719-8CEE-055F1D4CA2FC.jpg



Monitoring Technician Log

ID: 2018060741418.0

Title:	ST78-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:38 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:30 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST78-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781129@-104.941115

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_ACE3DC2C-B6FF-47F2-A865-E556776A836C.jpg	6/7/2018 11:30:53 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5'

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST78-1- 0’-0.5’
	Location ST78-1-2
	Time 10:32 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST78-1- .5’-1’
	Location ST78-1-2
	Time 10:37 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST78-1- 1’-3’
	Location ST78-1-2

Time 10:37 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:38 PM

Appendix: Attachments

Attachment #1
IMG_ACE3DC2C-B6FF-47F2-A865-E556776A836C.jpg



Monitoring Technician Log

ID: 2018062036642.0

Title:	ST94-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:17 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

09:44 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 63

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-70 east off ramp and Colorado Blvd. on median

2 Excavation Location(s)

Location: ST94-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779066@-104.940233

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_66EE89A1-F229-4C44-970C-AFAEC3AB8085.jpg	6/20/2018 10:11:30 AM
IMG_F81516FF-17E1-47ED-80CC-2587F629315B.jpg	6/20/2018 10:11:40 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	2	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.9 ppm	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ST94-5-0' - 0.5'	
	Location ST94-5-5	
	Time 09:13 AM	
	Date 06/20/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST94-5-0.5' - 1'	
	Location ST94-5-5	
	Time 09:12 AM	
	Date 06/20/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST94-5-1' - 5'

Location ST94-5-5

Time 09:12 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:17 PM

Appendix: Attachments

Attachment #1
IMG_F81516FF-17E1-47ED-80CC-2587F629315B.jpg



Attachment #2
IMG_66EE89A1-F229-4C44-970C-AFAEC3AB8085.jpg



Monitoring Technician Log

ID: 2018061944832.0

Title:	ST88-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	19 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 10:57 AM (Central Time)

1 General Information

1 Date

06/19/2018

2 Time

11:27 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 79

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

NB lane CO BLVD

2 Excavation Location(s)

Location: ST88-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782110@-104.940395

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_58240552-7F1C-4EE7-AAE4-D18045796E4E.jpg	6/19/2018 12:28:02 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Refusal at 12ft	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right PID: 2.7	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB-ST88-1- 0' - 0.5'	
	Location ST88-1-5	
	Time 11:28 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB-ST88-1- 0.5' - 1'	
	Location ST88-1-5	
	Time 11:28 AM	
	Date 06/19/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB-ST88-1- 1' - 5'

Location ST88-1-5

Time 11:28 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB-ST88-1- 5'-10'

Location ST88-1-5

Time 11:29 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB-ST88-1- 10'-12'

Location ST88-1-5

Time 11:30 AM

Date 06/19/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 12ft

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 10:57 AM

Appendix: Attachments

Attachment #1
IMG_58240552-7F1C-4EE7-AAE4-D18045796E4E.jpg



Monitoring Technician Log

ID: 2018061341088.0

Title:	ST88-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:05 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

10:24 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado Blvd, and I-70 on E median

2 Excavation Location(s)

Location: ST88-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782170@-104.940141

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_90ECFAA5-892C-40EB-87AC-147354F7DB9F.jpg	6/13/2018 11:27:41 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 10’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.1 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST88-4- 0' - 0.5'
		Location ST88-4-5
		Time 10:28 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST88-4- 0.5' - 1'
		Location ST88-4-5
		Time 10:28 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST88-4- 1' - 5'
		Location ST88-4-5

Time 10:28 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST88-4-5'-10'

Location ST88-4-5

Time 10:24 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 10'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:05 PM

Appendix: Attachments

Attachment #1
IMG_90ECFAA5-892C-40EB-87AC-147354F7DB9F.jpg



Monitoring Technician Log

ID: 2018061432889.0

Title:	ST80-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:19 PM (Central Time)

1 General Information

1 Date

06/14/2018

2 Time

08:08 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 71

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Round field, I-70 and exit sign 274

2 Excavation Location(s)

Location: ST80-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780502@-104.940245

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E0A4640C-D59F-4F32-80F1-017C9D571F7C.jpg	6/14/2018 9:09:47 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB -ST80-3-0' - 0.5'
		Location ST80-3-2
		Time 08:10 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST80-3-0.5' - 1'
		Location ST80-3-2
		Time 08:10 AM
		Date 06/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST80-3-1' - 3'
		Location ST80-3-2

Time 08:10 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID N/a

Time 09:10 AM

Date 06/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 1’

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:19 PM

Appendix: Attachments

Attachment #1
IMG_E0A4640C-D59F-4F32-80F1-017C9D571F7C.jpg



Monitoring Technician Log

ID: 2018060555373.0

Title:	ST51-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jun 2018
Reporter:	Karina Moore	**Status:**	Complete 6/23/2018 4:15 PM (Central Time)

1 General Information

1 Date

06/05/2018

2 Time

02:22 PM

3 Monitoring Technician

Monitoring Technician Name: Karina Moore

Phone Number: 720-645-9808

Email: Kmoore@familyenvironmental.com

4 Weather

Temperature (F): 96

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Southeast corner of Steele and 46th

2 Excavation Location(s)

Location: ST51-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779841@-104.949024

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_42D83539-AC85-4E93-81BF-292BC9EFD12B.jpg	6/5/2018 3:24:00 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	0-0.5’	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right VOCs at 24.8 ppm @ 1’-3’	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID N/a	
	Location N/a	
	Time 03:26 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB- ST51-2-0’-0.5’; .5’-1’; 1’-3’	
	Location ST51-2-2	
	Time 02:28 PM	
	Date 06/05/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

3	Additional Comments

Excavation depth 2ft

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 4:15 PM

Appendix: Attachments

Attachment #1
IMG_42D83539-AC85-4E93-81BF-292BC9EFD12B.jpg



Monitoring Technician Log

ID: 2018062057341.1

Title:	ST70-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/27/2018 3:11 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

03:55 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 76

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST70-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.783975@-104.940257

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6DA5458C-8230-414C-B773-CB95C7F97654.jpg	6/20/2018 3:56:21 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB-ST70-3 - 0' - 0.5'
		Location ST70-3-2
		Time 04:19 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST70-3- 0.5' - 1'
		Location ST70-3-2
		Time 04:19 PM
		Date 06/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST70-3- 1' - 3'
		Location ST70-3-2

Time 02:51 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Time 04:19 PM

Date 06/20/2018

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/27/2018 2:28 PM

Appendix: Attachments

Attachment #1
IMG_6DA5458C-8230-414C-B773-CB95C7F97654.jpg



Monitoring Technician Log

ID: 2018061131207.0

Title:	ST58-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:53 PM (Central Time)

1 General Information

1 Date

06/11/2018

2 Time

07:40 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 60

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

1 Property Description (area material was generated)

Near Manna Pro. Madison and 46th

2 Excavation Location(s)

Location: ST58-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779882@-104.946185

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9F59E5C4-7D70-42F4-9E9B-0C5A2D46D2CF.jpg	6/11/2018 8:42:00 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	4	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.3	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Sample ID n/a	
	Time 08:42 AM	
	Date 06/11/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	
	Sample ID CSB-ST58-2-0’-0.5’	
	Location ST58-2-2	
	Time 07:46 AM	
	Date 06/11/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Add Another	

Sample ID CSB-ST58-2-0.5’-1’

Location ST58-2-2

Time 07:49 AM

Date 06/11/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST58-2-1’-3’

Location ST58-2-2

Time 07:49 AM

Date 06/11/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP).

Laboratory Sent To SGS North America

Add Another

Sample ID CSB-ST58-2-3’-5’

Location ST58-2-2

Time 07:50 AM

Date 06/11/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:53 PM

Appendix: Attachments

Attachment #1
IMG_9F59E5C4-7D70-42F4-9E9B-0C5A2D46D2CF.jpg



Monitoring Technician Log

ID: 2018061349630.0

Title:	ST97-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:07 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

12:47 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 89

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

East of Colorado Blvd in the median between Colorado and 48th

2 Excavation Location(s)

Location: ST97-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781414@-104.939898

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CA7DD7D5-16A2-4486-8AAC-4F1AC3CCB28A.jpg	6/13/2018 1:50:16 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.5 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB-ST97-2- 0' - 0.5'
		Location ST97-2-5
		Time 12:48 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST97-2- 0.5' - 1'
		Location ST97-2-5
		Time 12:50 PM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB-ST97-2-1' - 5'
		Location ST97-2-5

Time 12:51 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB-ST97-2-5'-8'

Location ST97-2-5

Time 12:53 PM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:07 PM

Appendix: Attachments

Attachment #1
IMG_CA7DD7D5-16A2-4486-8AAC-4F1AC3CCB28A.jpg



Monitoring Technician Log

ID: 20180620311107.0

Title:	ST89-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 7:05 PM (Central Time)

1 General Information

1 Date

06/20/2018

2 Time

07:38 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 54

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I70 exit to Colorado Blvd. at traffic light

2 Excavation Location(s)

Location: ST89-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781339@-104.940258

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_546858E0-B1F4-4176-8D00-AC02E15B2005.jpg	6/20/2018 8:41:49 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

12

3	Field Screening/Monitoring
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 11.8 ppm

4	Analytical
1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB - ST89-6-0' - 0.5'
	Location ST89-6-5
	Time 07:42 AM
	Date 06/20/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST89-6-0.5' - 1'
	Location ST89-6-5
	Time 07:42 AM
	Date 06/20/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST89-6-1' - 5'
	Location ST89-6-5

Time 07:42 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST89-6-5'-10'

Location ST89-6-5

Time 08:00 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST89-6-10'-12'

Location ST89-6-5

Time 08:09 AM

Date 06/20/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 7:05 PM

Appendix: Attachments

Attachment #1
IMG_546858E0-B1F4-4176-8D00-AC02E15B2005.jpg



Monitoring Technician Log

ID: 2018061341517.0

Title:	ST88-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	13 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 6:01 PM (Central Time)

1 General Information

1 Date

06/13/2018

2 Time

10:52 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 77

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado and I-70, on east median

2 Excavation Location(s)

Location: ST88-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.781968@-104.940240

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D9CB149B-7760-47F1-BD34-A3ED26D7054E.jpg	6/13/2018 11:32:45 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 15’. Excavation depth 13’.

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.8 ppm
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST88-6- 0' - 0.5'
		Location ST88-6-5
		Time 10:52 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST88-6- 0.5' - 1'
		Location ST88-6-5
		Time 10:53 AM
		Date 06/13/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST88-6- 1' - 5'
		Location ST88-6-5

Time 10:53 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST88-6- 5'- 10'

Location ST88-6-5

Time 10:53 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ST88-6- 10'-13'

Location ST88-6-5

Time 10:53 AM

Date 06/13/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

Excavation depth 13'

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 6:01 PM

Appendix: Attachments

Attachment #1
IMG_D9CB149B-7760-47F1-BD34-A3ED26D7054E.jpg



Monitoring Technician Log

ID: 2018060740662.0

Title:	ST78-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 6/23/2018 5:18 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

10:17 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 79

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Liner cutter.

2 RHM Origination

2 Excavation Location(s)

Location: ST78-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780924@-104.941080

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F084D5B8-61FC-494D-91E7-BD79EF329B16.jpg	6/7/2018 11:18:18 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

0

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.9

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Sample ID CSB-ST78-2- 0’-0.5’
	Location ST78-2-2
	Time 10:19 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST78-2- .5’-1’
	Location ST78-2-2
	Time 10:22 AM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Add Another
	Sample ID CSB-ST78-2- 1’-3’
	Location ST78-2-2

Time 10:22 AM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 06/23/2018 5:18 PM

Appendix: Attachments

Attachment #1
IMG_F084D5B8-61FC-494D-91E7-BD79EF329B16.jpg



5/30/18 Jackson St MIP (ft)

1211	ML-88-3-5		7.2 ✓
	native 7'		
1234	ML-86-8-5	ex. 29'	18.3 ✓
	native - NA refusal @ 26'		
1347	ML-86-6-5		5.4 ✓
	native @ 4'		
1410	ML-88-2-5		6.2
	native refusal @ 26'		
1521	ST66-2-2		4.7
	hand dig		
1524	ML-88-4-5		25.3
	refusal		
1620	ML-57-9-5		1.3
	hand dig		

6/4/18 Jackson St. PID (ppm)

0700	on site, A. Becker w/ family	
	Environmental w/ Nathan Brack of	
	Vibe Laboratories at Pilot Truck	
	Stop meeting w/ Tenant	
0957	ML-68-7-5	0.0
	native @ 5'	
0818	ML-69-2-5	0.0
	native @ 6'	
0846	ML-69-4-5	~~0.0~~ 15.1
	native @ 5'	
0857	ML-69-8-5	22.6
	native @ 6'	
0924	ML-79-7-5	23.4
	native @ 9	
0957	ST63-1-2	1.5
	native @ 4'	
1014	ST63-7-2	16.5
	native @ 2'	
1033	ST61-7-2	9.7
	fill	
1100	ST61-1-2	7.0
	native @ 5'	
1108	ST-58-4-2	5.8
	native @ 4'	

Rite in the Rain

6/4/18 Jackson St

PID ppm

1155 ST 65-3-2 TD-25' 6.7
native @ 20'
1320 ST 65-2-2 TD-1' 10.5
fill
1356 ML-66-7-5 TD 24' 2.5
native @ 7'
1422 ML-78-5-5 8.4
native @ 4'
1541 ML-57-9-5 4.7
grab sample
1547 offsite

6/5/18
0700 on site, A. Becker w/ Family Environmental
w/ Nathan Brady w/ Vine Laboratories
at I-70 + Clayton St
0720 ML 54-3-5 14.0 ✓
native @ 2'
0900 ML-56-1-5 → ML-56-2-5 ✓ 4.0 ✓
native 3'
0830 ML-74-7-6 4.2 ~~8.2~~
(hand auger)
0851 ML-56-6-5 8.2
(hand auger)

6/5/18 Clayton St

PID ppm

0907 ML 56-9-5 9.7
native 4'
0920 offsite

6/6/18 Steele
0700 on site, A. Becker w/ Vine
Laboratories, H+S meeting
0719 set up @
ML-66-1-5 1.2
native @ 4'
0755 ML-66-6-5 5.1
native @ 4'
0807 ML-66-9-6 2.1
native @ 3'
0824 ML-70-5-5 6.0
native @ 4'
0830 ML-70-9-5 0.6
native @ 4'
0900 ST 57-2-5
hand auger
0918 ST 48-4-2 4.9
native @ 3'
0932 ST 49-3-2 12.7
native @ 3'

Rite in the Rain

6/6/18 Steele St

PID (ppm)

0852 ST 49-4-2
native @ 2' TD Fill @ 5' 14.9
ST 38-3-5 17.0
1041 native @ 9'
1114 ST 38-5-5 15.2
native @ 7'
1134 ST-39-6-5 1.9
nat. ve @ 9'
1144 ST 39-1-5 5.4
native @ 9'
1238 ST 39.4-5 14.9
native @ 5'
1259 ST 40-5-5 9.2
native @ 5'
1337 ST 41-8-5 31.8
native 2'
1356 ST 41-6-5 28.6
native @ 2'
1403 ST 41-2-5 18.8
native @ 5' 39.7810, -104.9504
1409 ST-38-9-5
39.7809 -104.9505
Hand auger

6/6/18 Steele St

PID (ppm)

1454 ST 38-2-5
native @ 11' 22.9
1530 ~~ST 38-7-5~~ ST-40-8-5 1.2
native 5'
1600 OH site

6/7/18 Steele St.

0700 AS on site, w/ Vine Laboratories
0748 ST 38-7-0 TD-13' 9.1
native 11'
0822 ST 39-3-5 11.3
native 8'
0840 ST 39-9-5 11.3
native 6'
ST-40-2-5 11.5
0909 native 7'
0924 ST-41-4-5 5.5
native 4'
1004 ST-39-2-2 12.6
native -Fill TD = 0'
1020 ST 39-3-2 4.0
native -Fill TD = 0'
1028 ST 38-2-2 5.9
native -Fill TD < 1
1041 ST-76-4-2 2.0
native -Fill TD < 1'

Rite in the Rain

6/7/18 Colorado

			PID (ppm)
1057	ST 78-1-2		4.8
	native - Fill		
1109	ST 76-1-2	TD = 0'	3.2
	native @ 2'		
1120	ST 75-2-2	TD = 2'	3.4
	native @ 2'		
	ST 74-3-2	TD-5'	8.5
1134	native @ 2'		
1143	ST-73-1-2	TD -3'	3.2
	native @ 2'		
1150	ST-74-1-2	TD -4'	13.0
	native 2'		
1240	ML-48-2-5		19.9
	native @ 2'		
1255	ML-48-4-5		22.2
	native @ 2'		
1308	ML-48-8-5		6.3
	hand auger		
1319	ML-48-6-5		1.2
	native 2'		
1329	ML-50-3-5		4.7
	native 2'		

6/7/18

			PID (ppm)
1402	ST 32-3-2		6.1
	native @ 2' 39.7807, -104.9555		
1415	ST 39-2-2		7.8
	native - Fill TD: 2'		
	39.7812, -104.9525		
~~1438~~	ST 36-1-2	TD = 11'	3.4
1456	39.7808, -104.9617, native @ 5'		
1498	ST 34-4-2	TD = 4'	4.2
	39.7809 -104.9520		
1519	ST 46-3-2	TD = 6'	9.1
	native @ 4'		
	39.7847, -104.9505		
1530	offsite		
0700	on site @ Pilot Truck Stop		
	A. Decker w/ Family Environmental		
	Northern w/ Line on site		
0725	ST 58-2-2		1.3
	native @ 4'		
0738	ML 65-5-5		7.6
	native @ 5'		
0832	ML-65-7-5		6.0
	native @ 6'		
0859	ML-65-9-5		3.5
	native @ 4'		

Rite in the Rain

	6/11/18	PID (ppm)
0911	ML 65-J-5	6.1
	native @ J'	
0974	ML-6J-1-5	5.7
	Hand auger	
0944	ML-6J-6-5	2.4
	native @ 2'	
1008	ML6J-4-5	9.2
	native @ ~~6~~ 5'	
	ML6J-2-5	5.2
1027	native @ 5'	
	ML50-5-5	5.0
1129	~~ML50-5-5~~ native @	
	native @ J'	
1140	ML50-7-5	13.6
	native @ 5'	
1217	ML50-7-5	7.1
	native @ 4'	
1233	ST32-1-2	5.2
	native @ 1'	
1247	ML50-1-5	2.0
	native @ 3'	
1341	ST29-J-2	5.1
	native @ 4'	
1350	~~off site~~ ST-29-1-2	5.8
	native @ 2'	

	6/13/08	PID (ppm)
0700	AES on site	
0710	Hit 5 meeting	
0732	ST 78-J-2	
	native (NA) TD = 1 Fill @ 5'	J.2
	ST 72-1-2 X2	
0814	native @ 2'	14.J
0835	~~ST 74-2-2~~ ST 70-4-2	0.0
	native @ 2'	
0854	ST 71-4-2	0.0
	native @ 2'	
1014	ST 70-J-2	0.6
	native @ fill @ 5'	
1024	ST 98-4-5	7.1
	native @ TD = 10' Fill @ 10'	
	ST 88-6-5	3.8
1049	native @ TD = 13' Fill @ 15'	
1109	ST 88-9-5	1.2
	native TD - 11' fill @ 11'	
1149	ST 89-8-5	4.4
	native TD = 20' fill @ 20'	
1310	ST 92-2-5	0.5
	native @ 4' TD = 8'	
1341	ST 98-1-2	0.4
	native @ 3' TD = 6'	

Rite in the Rain

			PID (ppm)
	6/13/18		
1350	ST 98-3-2		1.4
	native 2'		
1402	ST 97-7-2		3.5
	native 3'		
1425	ST 90-9-5	TD = 13	9.4
	native 3'		
1455	ST 90-5-5	TD = 9	2.9
	native 3'		
1507	ST 90-7-5	TD = 19'	2.5
	native 4'		
1534	ST 91-5-5		3.3
	native 2'		
1545	off site		
	6/14/18		
0700	AB onsite w/	Vine Laboratories	
0705	H+S meeting		
0750	ML-99-1-5		0.0
	native @ 1'		
0802	ST 80-3-2		4.4
	native @ 1'		
0815	~~HL~~ ST 91-7-5		8.7
	native @ 1'		
0823	~~HL~~ ST 91-9-7		0.0
	native @ 1'		

			PID (ppm)
	6/14/18		
0832	~~HL~~ ST 98-3-2		~~0.0~~ 1.0
	native @ 2'		
0844	ML 99-7-5		2.9
	native @ 1'		
0854	ML 99-4-5		0.0
	native @ 2'		
1017	ML 99-3-5		6.1
	native @ 1'		
0916	ST 91-2-5		0.0
	Hand auger	Fill @ 1'	
1216	ML-99-5-5		4.7
	native @ 2'		
1323	ST 92-1-2	TD: 4'	4.0
	native @ 1'		
1341	ST 81-2-2		7.3
	native @ 7'		
1409	ST 81-4-2	TD=0	4.1
	native @ 2'		
1422	ST 68-3-2		4.5
	native @	Fill @ 4'	
1522	ST 100-8-5	TD=100	4.0
	native @ 1'		
1531	ST 101-9-5		7.5
	native @		
1616	off site		

Rite in the Rain

	6/15/18		PID (ppm)
0700	AB on site		
0746	ST101-C-5	TD=18'	0.5
	native @ 4'		
0808	ST95-7-5		3.7
	native @ 6'		
0904	ST95-9-5		2.4
	native @ fetusal @ 4' asphalt		
0925	ST96-6-5		20.1
	native fetusal @ 4' asphalt		
1024	ST96-7-5		8.5
	native 2'		
1100	ST95-5-5	TD=26	8.2
	native @ 10'		
1139	ST96-5-5		3.6
	native @ 7'		
1220	ST84-3-2	TD=1'	7.6
	native @ Fill @ 1'		
1306	ST99-1-2		0.5
	native @ 3'		
1328	ST48-1-2	TD=0	1.9
	native @ Fill @ 4'		
1414	ST40-6-5		2.7
	native @ 9'		

	6/15/18	PID (ppm)
1450	ST40-4-5	3.5
	native 3'	
1515	ST82-2-2	1.0
	hand auger "re-collection" Fill	
1540	off site	

	6/19/18	
0730	on site A. Becker w/ Family Environmental	
0743	ST75-3-2 TD=4'	14.1
	native @ 1'	
0834	ST82-2-2 TD=5'	0.9
	native @ Fill @ 5'	
0854	ST82-4-2	1.6
	native @ Fill @ 5'	
0916	ST83-2-2 TD=4'	0.1
	native Fill @ 5'	
0927	ST83-4-2	2.3
	native @ 4'	
1011	ST90-3-5	2.6
	native fetusal + fill @ 14'	
1045	ST90-1-5 TD=11'	4.0
	native @ fetusal + fill @ 11'	
1136	ST89-2-5 TD=14'	2.4
	native @ 10'	

Rite in the Rain

			PID (ppm)
	6/19/18		
1154	ST 88-3-5		5.7
	native @ 9'		
1218	ST 88-1-5	TD=12'	2.7
	native @	fetaral Fill @ 12'	
1250	ST 70-3-2	TD=2'	60.4
	native @ 4'		
1312	ST 80-1-2	TD=0'	6.4
	native @	Fill @ 5'	
1524	ST 89-4-5	TD=20'	5.8
	native @ 10'		
1600	off site		
	6/20/18		
0700	AB on site, H&S meeting		
0740	ST 89-6-5	TD=19'	11.8
	native @ 12'		
0851	ST 95-3-5	TD=17'	5.3
	native @ 11'		
0921	ST 95-1-5		4.7
	native @ 5'		
0945	ST 94-5-5		0.9
	native @ 2'		
0958	ST 94-8-5		1.3
	native @ 4'		
1015	ST 93-9-5		1.1
	native @ 2'		

			PID (ppm)	
	6/20/18			
1030	ST 93-5-5		1.5	
	native @ 4'			
1047	ST 93-7-5		3.2	
	native @ 5'			
1126	ST 92-3-2	TD=16	2.4	
	native @ 2'			
1138	ST 99-1-2	TD=0	5.0	
	native @ 2'			
1146	ST 100-2-5	TD=12	5.7	
	native @ 2'			
1216	ST 101-1-5		4.0	
	native @ 4'			
1332	ST 101-3-5		9.3	☑
	native @ 3'			
1335	ST 101-4-5		7.6	☑
	native @ 4'			
1342	ST 100-5-5		5.7	☑
	native @ 3'			
1353	ST 100-6-5		10.7	☑
	native @ 4			
	ST 70-3-2	TD=3'	2.8	☑
1451	Fill @ 5'			
1510	ST 70-1-2	TD=3'	8.8	☑
	native @ 4'			

Rite in the Rain

6/21/18

			PID (ppm)
0700	At Beulah onsite, H+S meeting		
0732	ST46-3-2		0.5
	native Fille 5'		
0806	ST43-1-2	TD=1'	2.8
	native 4'		
0814	ST44-2-2	TD=3'	2.7
	native 4'		
0840	ST45-1-2	TD=4'	5.7
	native @ Fille 5'		
0904	ML63-5-5		5.9'
	native @ 4'3'		
0940	ST47-4-2		1.0
	native @ Fill @ 5'		
1012	ST44-4-2		5.3
	native @ 3'		
1023	ST43-3-2		4.3
	native 3'		
1110	EN-2-3		3.8 ⊘
	native 2'		
1127	EN-4-3		2.3 ⊘
	native 2'		
1132	EN-6-3		5.4 ⊘
	native 1'		
1142	EN-8-3		1.4 ⊘
	native 1'		

6/21/18

		PID (ppm)
1150	EN-10-3	3.4 ⊘
	native 1'	
1156	EN-12-3	4.7 ⊘
	native 1'	
	~~EN-14-3~~	
1256	~~native 1'~~	
1279	EN-16-3	1.3 ⊘
	native 1'	
1244	EN-18-3	5.2 ⊘
	native 1'	
1259	EN-20-3	5.7 ⊘
	native Fille 5'	
1306	EN-22-3	8.7 ⊘
	native 4'	
1312	EN-24-3	1.0 ⊘
	native fille 5'	
1319	EN-26-3	8.8 ⊘
	native fille 5'	
1327	EN-14-3	5.5 ⊘
	native 1'	
1400	off site	

Rite in the Rain

6/22/18

		PID (ppm)
0700	AB on site, H+S meeting	
	~~EN27-3~~	
	ST88-1-3	4.0
0936	collect 5'-10' interval	
0953	EN30-3	2.8
	native 1'	
1010	EN32-3	5.5
	native 1'	
1023	EN34-3	7.9
	native 1'	
1031	EN36-3	7.1
	native 1'	
1038	EN38-3	6.2
	native 1'	
1046	EN40-3	5.8
	native 1'	
1108	EN28-3	5.8
	native Fill @ 5'	
1130	off site	
0700	AB on site, H+S meeting	6/25/18
1326	ST84-2-2 TD: 4'	1.9
	native @ fill @ 5'	
1400	ST85-2-2 TD: 3'	
	native NO Sample	
1470	off site	

6/26/18

		PID ppm
0700	AB on site H+S meeting	
1012	ST85-2-2	3.2
	native Fill 5'	
1022	ST85-4-2 TD=3'	7.2
	native Fill 5'	
1038	ST86-2-2	7.2
	native Fill 3'	
1053	ST86-4-2	7.2
	native Fill 3'	
1103	ST87-2-2	5.5
	native Fill 3'	
1200	set up for gradation borings	
1402	ML22-3 gradation boring	
	native @ 8'	
	39.7803, -104.9628	
1530	off site	

6/27/18

0700	AB on site, H+S meeting	
0853	ST68-4-2	6.1
	native fill @ 3'	
	note: replaced ST68-1-2	
0900	ST78-1-2	5.4
	native @ 3'	

Note: trowel not used for sampling,
Equipment Blank not collected

Rite in the Rain

6/27/18

1042 ML-22-8 gradation boring
native @ 6'
39.7806, -104.9623

1500 off site

6/28/18

0650 on site AD, H+S meeting
ST96-3-5 Note: ST99-2-2 & ST97-2-2

1007 ST87-4-2 TD = 1' 0.9 ✓
native Fill @ 3'

ST96-3-5 TD = 2 11.6 ✓

1035 native Fille 5'

1045 ST96-2-0 TD = 2' 9.6 ✓
native Fill @ 7'

1055 ST-96-4-5 TD = 7 9.9 ✓
native Fille 7'

1112 ST 94-2-5 TD = 5' 13.5 ✓
native Fille 5'

1134 ST 93-3-5 TD = 7' 14.7 ✓
native Fille 7'

1149 ST 93-1-5 TD = 5' 15.0 ✓
native Fill @ 5'

1246 ST 90-3-5 redo for 5'-7', altered
Fille 7'

1250 ST 99-2-2 TD = 3' 12.7 ✓
native Fill @ 3' Note replaced: ST99-2-2 due to access

6/28/18

1425 ML 20-1 gradation boring
native @ 6'
39.78054 -104.9631

1530 off site

6/29/18 Gradation Borings only:

0700 AD on site, H+S meeting
ML-22-3 Gradation Borings

0777 native @ 6'
39.7806, -104.9623

0817 ML-24-5
39.7804, -104.9620 [offsite: to Subcontractor meeting]
native @ ~~7~~ 5'

1154 ML-24-3
39.7804, -104.9620
native @ 2'

1315 ML 18-8
39.7805, -104.9634
native @ ~~4~~ 5'

1400 off site

7/2/18

0645 on site, H+S meeting

0751 ML 27-5
39.7806, -104.9605
native @ 8'

Rite in the Rain

CONTENTS

PAGE	REFERENCE	DATE
1	Kiewit - CDOT Central 70 Proj. #18-081	4/23/18

4/23/18

0810 on site, H&S meeting @ Vine @ 7:00

PID calibrated

sunny 40-60s

SW Brighton & I-70

Vine Industries Daniel Lutz

Teegan w/ Kiewit

Alex Becker w/ Ramey Environmental

on site

PID ppm

0845 ~~HOLT~~ ST-1-1-5

0-4" gravel pack road base gravel 2.5

dk brown (7.5YR 3/2) med. to coarse

0815 1/2" dry collect SS CSB for composite

4"-1' dark Fill w/ brick, dk brown (7.5YR 3/2),

fine grain #4, dry, no odor collect comp.

1'-7' silty sand, light brown (7.5YR 6/4)

7' med., dry, no odor collect.

0820 7'-TD-8' sand collect CSB-ST1-1(1-5)042318

7-8' Native sand gray brown (2.5Y 4/2)

med, dry, no odor

0900 collect CSB-ST1-1(5-10)042318

Rite in the Rain

5/11/18

call David w/ Vine Drilling
for Nathan's # 720-355-6256
0900 Marisa - onsite performing soil sampling

5/14/18

0700 Alex Decker w/ Family Environmental
onsite to perform soil sampling w/
Nathan Branch w/ Vine Environmental
for intent of Hole # I-20
Log at GPS and depth to native

0734 ST-28-5
39.779~~89~~, -104.95~~90~~66
202 041
Native sand @ 7'

0800 ST-28-8
39.779204, -104.956924
Native sand @ 3'

0820 ST-28-6
39.779501, -104.956864
Native sand @ 4'

Rite in the Rain

5/14/18

		ED
0844	ML-36-5	25'
	39.780083, -104.958546	
	Native sand @ 3'	
	ML-36-2	25'
0857	39.780228, -104.958709	
	Native sand @ 3'	
0908	ML-35-6	25'
	39.780432, -104.958905	
	Native sand @ 2'	
0922	ML-35-8	24'
	39.780425, -104.958719	
	Native sand @ 2'	
0942	ML-36-6, 39.780319, -104.958560	
	Native sand @ 2'	
0957	Hand sample ST-27-1	
1015	~~ML~~ ST-27-2	
	39.780263, -104.959122	
	Native sand @ 3'	
1044	ML-35-2	
	see Google Maps	
	39.780420, -104.958959 Native @ 3'	
1110	~~ST-34-2~~ → ST-23-4	
	39.780903, -104.959152	
	Native @ 3'	

5/14/18

ML-41-8-

1145 - ~~ST~~ ML-41-1

39.780270, -104.957362

refusal @ 5' not sampled

lightning shut-down

1220 off site

PID

5/15/18

0700 Alex Becker w/ Family Environmental onsite to perform soil sampling w/ Nathan Branch w/ Vine Environmental Laboratory for hiemit at Columbus + I-70

Log GPS and depth to Native + PID

0722	ML-41-1	< 2.0
	Native sand @ 8'	
0832	ML-41-8	< 2.0
	39.780226, -104.956670	
	Native sand @ 6'	
0905	ML-39-1	< 2.0
	39.780264 -104.958111	
	Native sand @ 7'	
0943	ML-39-5	< 2.0
	39.780250, -104.957680	

Rite in the Rain

5/15/18

PID (ppm)

0954 ML-41-4
-39.7800~~85~~ 2750, -104.9069920
- Native sand @ 5'
<2.0

1011 ML-41-7
39.7800850 -104.9568850
Native sand @ 5'
<2.0

1027 ML-41-3
- 39.7800500, -104.9572850
- Native sand @ 4'
1.8

1030 ML-39-8
- 39.7800520, -104.9574210
- Native sand @ 5'
1.7

1058 ML-39-~~6~~ 4
- 39.7800623, -104.9578378
- Native sand @ 7'
0.9

1118 ST30-~~7~~-1
-39.7799196, -104.9579779
- Native sand @ 4'
1.2

1238 ML-37-1
39.7805812, -104.9586435
- Native sand @ 4'
1.7

1249 ML-37-3
concrete refusal no sample

5/15/18 37

PID (ppm)

1313 ML-~~35~~-85
- 39.7804452, -104.9584876
- Native sand @ 5'
2.0

1356 ML-37-9
- 39.7803821, -104.9581556
- Native sand @ 4'

1430 ML-37-3 redo
-39.7803190, -104.9585600
-"Hard Dig" shallow sample only refusal at 3', gasoline odor
1171

1456 ST-28-1
-39.7795153, -104.9591846
- Native sand @ 5'
0.1

1519 ML34-6
39.7802906, -104.9595692
- Native sand @ 3'
19.7

1534 ML-38-2
-39.7804558, -104.9580655
- Native sand @ 4'
17.1

1558 ML-38-8
-39.7804024, -104.9577298
- Native sand @ 5'
10.9

ML 38-6
1604 -39.7803100, -104.9577823
- Native sand @ 4'
7.2

Rite in the Rain

5/15/18 (PID) ppm

1624 ML-37-7 2.4
39.7806490, -104.9582385
Native sand @ 5'
1640 off site

5/16/18

0700 on site Alex Bachus w/ family Tim w/ Nathan Branch w/ Vibe Laboratories at I-10 + Columbine
0730 hand auger ST27-1-5 2.1
-39.7800605, -104.9598697
0800 ST30-3 1.7
39.78~~0228~~98345, -104.957~~4516~~0911
Native sand @ 2'
0828 MC-40-3 2.4
39.7803228, -104.9574516
Native sand @ 3'
0842 ML-40-5 1.7
39.7804403, -104.9573530
Native sand @ 3'
0900 ML-40-9 1.2
39.7803179, -104.9572491
Native sand @ 2'

5/16/18 PID (ppm)

0910 ML 40-~~7~~1 1.4
39.7806485, -104.9574591
Native sand @ 8'
0935 ML-40-7-5 1.7
39.7807088, -104.9571961
Native sand @ 9'
ML-38-4-5 west hole on standby
1054 ML-49-1-5 0.3
39.7802613, -104.9549098
Native sand @ 4'
1100 ML-46-C-5 0.0
39.7802388, -104.9551254
Native sand @ 4'
1108 ML-46-2-5 0.0
39.7802404, -104.9555764
Native sand @ 3'
1122 ML-38-4-5 0.3
39.780643, -104.957817 (from T. Sellers)
Native sand @ 4'
1217 ML-51-4-5 0.5
39.7802584, -104.9537025
Native sand @ 6'
1240 ML-51-1-5 0.0
39.7802447, -104.9540438
Native sand @ 6'

Rite in the Rain

5/16/18

		PID (ppm)
1251	ML51-J-5	0.3
	39.7801084, -104.95539912	
	Native sand @ 7'	
	ML-49-8-5	
1311	ML 49-8-5, -104.95543023	0.7
	39.7800867,	
	Native sand @ 7'	
1340	ML-49-4-5	0.8
	39.780149, -104.954721	
	Native sand @ 4'	
1406	ML-46-9-5	1.2
	39.780108 -104.95504?	
	Native sand @ 4	
1417	ML-46-5-5	2.2
	39.7800404 -104.95542?	
	Native sand @ 12'	
1458	ML-44-9-5	1.5
	39.7800734, -104.95572?	
	Native sand @ 4'	
1516	ML-44-6-5	2.5
	39.7800726, -104.95600?	
	Native sand @ 8'	

5/16/18

		PID (ppm)
1532	ML 44-3-5	1.0
	39.7802395, -104.9562714	
	Native sand @ 4.5'	
1548	ML-44-7-5	0.1
	39.7802692, -104.9559521	
	Native sand @ 8'	
1620	Off site	

5/17/18

~~0500~~ 0730 Alex Decker w/ Family Environmental on site to perform direct push soil sampling w/ Nathan Branch w/ Vine Laboratories for Kiewit at Thompson Ct & I-70

Log depth to Native, GPS & PID:

0817	ML-49-5-5	2.1
	39.7802530, -104.9545467	
	Native sand @ 4'	
0918	ML-51-7-5	1.1
	39.7801, -104.9537	
	Native sand @ 6'	
0947	ML-44-2-5	2.8
	39.7801, -104.9563	
	Native sand @ 6'	

Rite in the Rain

5/17/18

		PID (ppm)
1005	ST 30-4-2	3.7
	39.7801, -104.9563	
	native sand @ 9'	
1108	ML-62-6-5	1.9
	39.7806, -104.9500	
	native sand @ 3'	
1128	ML-60-9-5	1.3
	39.7800, -104.9508	
1143	native sand @ 3'	
	ML-60-3-5	3.4
	39.7800, -104.9511	
	native sand @ 4'	
1206	ML-59-6-5	1.2
	39.7801, -104.9518	
	native sand @ 4'	
1225	ML-62-7-5	1.4
	39.7803, -104.9502	
	native clayey sand @ 2'	
1240	ML-62-2-5	1.6
	39.7803, -104.9506	
	native clayey sand @ 2'	
1243	ML 60-5-5	0.2
	39.7803, -104.9510	
	native clayey sad @ 1'	

5/17/18

		PID (ppm)
1323	ST 09-1-2	1.9
	39.7811, -104.9566	
	native @ 7'	
1402	ML-59-8-5	0.2
	39.7803, -104.9512	
	native @ 1'	
1410	ML-59-2-5	0.8
	39.7802, -104.9516	
	native @ 1'	
1427	ML-59-4-5	1.2
	39.7803, -104.9514	
	native @ 1'	
1515	off site	

5/18/18

0730 on site: Alex Becker w/ Family Environmental to perform direct push soil sampling w/ Nathan Brandt w/ Vine Laboratories for client at E-70 & Steele St

0800 rig down, off site

Rite in the Rain

5/21/18

PID (ppm)

0705 onsite, Alex Decker w/ Family Environmental w/ Nathan Brack w/ Vine Laboratories for Linework at I-70 & Steele St.

0900 ML-60-7-5 — 1.0
39.7803, -104.9511
native @ 1'

0912 ML-58-7-5 — 2.6
39.7804, -104.9513
native @ 1'

0920 ML-61-2-5 — 3.2
39.7805, -104.9510
native @ 1'

0931 ML-60-7-5 — 2.5
39.7804, -104.9508
native @ 1'

1000 ML-62-4-7 — 2.7
39.7803, -104.9505
native @ 1'

1012 ML-61-6-5 — 1.9
39.7805, -104.9503
native

1019 ML-61-7-5 — 1.5
39.7806, -104.9508
native @ 1'

5/21/18

PID (ppm)

1028 ~~ST 56-3-2~~ ML-58-8-5 — 1.8
39.7806, -104.9510
native @ 1'

1040 ML-61-8-5 — 2.1
39.7806, -104.9504
native @ 1'

1116 ML 67-6-5 — 1.4
39.7806, -104.9492
native @ 9'

1200 ST 55-2-2 — 2.0
39.7808, -104.9486
native @ 7'

1230 ML-67-9-5
native. Lit concrete, on hold until relocated

1309 ML-67-8-5
jammed liner due to concrete, on hold until relocated
ML-72-2-5 - on hold

1418
native @ (on hold)

Rite in the Rain

5/21/18

		PID (ppm)
1428	ML-72-4-5	2.1
	39.7807, -104.9475	
	native @ 4'	
1438	ML-72-2-5	1.4
	39.7805, -104.9478	
	native @ 4'	
1450	ML-72-6-5	1.1
	39.7804, -104.9475	
~~1470~~	native @ 4'	
1454	ML-72-8-5	1.7
	39.7805, -104.9475	
	native @ 4'	
1531	ML-74-6-5	6.2
	39.7803, -104.9473	
	native @ 4'	
1540	ML-74-4-5	5.2
	39.7806, -104.9472	
	native @ 4'	
1547	ML-74-2-5	1.7
	39.7807, -104.9474	
	native @ 4'	
1607	ST54-4-2	1.6
	39.7810, -104.9474	
	native @ 4'	

5/21/18

		PID (ppm)
1630	ST54-1-5	1.6
	39.7810, -104.9478	
	native @ 4	
1645	ST-53-4-2	1.2
	~~39~~ 7808, -104.9478	
	native @ 4'	
1710	OHSite	

5/22/18

0700 on site, Alex Becker w/ Family Environmental w/ Nathan Brach w/ Vine Laboratories for Kiewit at I-70 + Steele St.

0732	ML54-7-5	1.9
	39.7803, -104.9527	
0746	native @ 3	
	ML55-6-5	3.1
	39.7807, -104.9526	
	native @ 3	
0823	ML57-3-3	0.2
	39.7803, -104.9522	
	native @ 4'	
0828	ST33-2-2	3.0
	39.7799, -104.9534	
	native @ 4'	

Rite in the Rain

5/22/18

PID (ppm)

0846 ML 55-4-5 — 3.1
39.7806, -104.9526
native @ 4'

0901 ML-56-6-5 — 1.7
39.7802, -104.9520
native @ 2'

0930 ST 52-8-5 (at Pilot) — 2.0
39.7812, -104.9479
native @ 4'

ST 52-4-5

0952 39.7811, -104.9482
on hold due to pavement

ST 52-3-5 — 1.4
39.7811, -104.9484
native @ 5'

1018 ST-52-1-5 — 4.8
39.7811, -104.9480
native @ 5'

1039 ST-50-8-5 — 2.1
39.7811, -104.9488

native @ 5'

1248 ST-52-7-5 — 4.1
39.7811, -104.9481
native @ 5'

5/22/18

PID (ppm)

1320 ML 71-6-5 — 0.0
39.7806, -104.9480
native @ 5'

1338 ML-71-2-5 — 0.0
39.7806, -104.9481
native @ 7'

1416 ML-67-9-5 — 0.6
39.7807. 104.9484
native @ 5'

1428 ML-67-8-5 — 0.1
39.7807, -104.9483
native @ 5'

ML-71-8-5

1443 39.7805 - 104.9481 — ON HOLD
native @

1514 ML-52.4-5 — 0.2
39.7811, -104.9483
native @ 4'

1532 ST 50-4-5 — 1.7
39.7810, -104.9492
native @ 14'

ST 47-3-2 — 2.0

1605 39.7807, -104.9495
native @ 5'

1631 off site

Rite in the Rain

5/23/18

PID (ppm)

0645 on site, Alex Decker w/ Family Environmental w/ Nathan Brack w/ Vine Laboratories for Gremit at Pilot Truck Stop

0900 Site wide Health & Safety Meeting

0752 ML67-3-5 (24' TD) 1.1
39.7806, -104.9491
native @ 9'

0823 ST47-2-2 0.5
39.7812, -104.9495
native @ 4'

0840 ST50-1-5 2.3
39.7812, -104.9494
native @ 4'

0916 ML-71-8-5 1.7
39.7805, -104.9481
native @ 5'

0942 ~~ML~~ ST-50-5-5 1.4
39.7812, -104.9490
native @ 7'

1007 ML-~~70-4-8~~-74-8-5 3.7
39.7804 -104.9471
native @ 2'

5/23/18

PID (ppm)

1036 ST27-6-5 0.0
39.7801, -104.9589
native @ 2'

1123 ~~ST~~ ML-53-3-5 2.2
39.7804, -104.9533
native @ 2'

1134 ML-53-5-5 4.0
39.7804 -104.9531
native @ 2'

1148 ML-52-8-5 0.6
39.7804, -104.9535
native @ 2'

1158 ML-52-2-5 1.4
39.7805, -104.9538
native @ 2'

1247 ML-52-~~8~~-5 2.0
39.7806, -104.9535
native @ 2'

1351 ML-52-8-5 0.7
native @ 2'
39.7805, -104.9535

1418 ML-~~53-4-7~~ 57-7-5 4.4
39.7806, -104.9517
native @ 9'

Rite in the Rain

5/23/18

		PID (ppm)
1439	ML-58-3-5	1.6
	39.7804, -104.9547	
	native @ 9'	
1524	ML-58-4-5	1.0
	39.7807, -104.9514	
	native @ 9'	
1541	ML-53-1-5	0.0
	39.7807, -104.9532	
	native @ 4'	
1558	ML-55-8-5	0.0
	39.7806, -104.9525	
	native @ 2'	
1615	ML-57-1-5	1.4
	39.7807, -104.9522	
	native @ 5'	
1635	OH site	

5/24/18

0700	AB onsite w/ Nathan Brock w/ Vine Laboratories at Pilot Truck Stop	
0741	ML-76-1-5	2.5
	39.7808, -104.9470	
	native 2'	

5/24/18

		PID (ppm)
0757	ST 56-2-2 on HOLD (complete.	
	39.7809, -104.9470	
	native @	
0815	ML-77-2-5	3.1
	39.7804, -104.9469	
	native @ 4'	
0826	ML-76-2-5	3.0
	39.7806, -104.9469	
	native @ 4'	
0900	ML 77-6-5	4.2
	39.7804, -104.9466	
	native @ 4'	
0949	ML-77-3-5	4.8
	39.7805, -104.9466	
	native @ 4'	
1014	ML-76-5-5	5.7
	39.7807, -104.9462	
	native @ 4'	
	ML-76-6-5	3.3
1041	~~ML~~ 39.7807, -104.9462	
	native @ 2'	
1055	ML-79-2-5	0.9
	39.7808, -104.9459	
	native @ 2'	

Rite in the Rain

5/24/18

		PID (ppm)
1105	ST 56-4-2 39.7809, -104.9460 native @ 2'	3.7
1119	ML-79-4-5 39.7805, -104.9459 native @ 10	3.8
1217	ML-77-7-5 39.7805, -104.9464 native @ 2'	2.6
1224	ML-76-6-5 39.7807, -104.9464 native @ 2'	2.3
1318	ML-77-9-5 39.7805, -104.9460 native @ 10', wood	5.9
1317	ML-79-9-5 39.7804, -104.9462 native @ 5'	4.2
1430	~~ML-57-3-5~~ ML-57-5-5 39.7804, -104.9520 native @ 2'	2.5
1453	ML-~~57-8-5~~ 51-8-5 39.7802, 104.9534 native @ 7'	2.7

5/24/18

		PID (ppm)
1504	ML 57-7-5 39.7805, -104.9528 native @ 2'	2.5
1519	ML 55-2-5 39.7804, -104.9527 native @ 2'	3.0
1540	off site	

5/25/18

0710	on site, A. Becker Family Environmental w/ Nathan w/ Vine Laboratories at Pilot Truck Stop	
0752	ML-83-5-5 39.7803, -104.9448 native @ 2'	2.7
0807	ML-83-1-5 39.7804, -104.9450 native 2'	3.5
0815	ML-81-8-5 39.7804, -104.9458 native 2'	4.5
0850	ST-26-3-2 39.7188, -104.8593 native @ 2'	1.6

Rite in the Rain

	5/25/18	PID (ppm)
0930	ML-36-9-5	3.5
	39.7800, -104.9587	
	hand auger to 1'	
1007	ML-53-9-5	4.2
	39.7802, -104.9528	
	native @ 2'	
1042	ML-4-5	6.8
	39.7802, -104.9481	
	native @ 3'	
1058	ML-68-6-5	2.3
	39.7802, -104.9485	
	native @ 3'	
1105	ML-68-9-5	1.0
	39.7802, -104.9489	
	native @ 3'	
1113	ML-68-3-5	1.2
	39.7802, -104.9492	
	native @ 4'	
1142	ML 75-7-5	3.0
	39.7803, -104.9466	
	native @ 7'	
1171	ML-73-3-5	6.4
	39.7803, -104.9477	
	native @ 3'	

	5/25/18	PID (ppm)
1155	ML-73-7-5	1.8
	39.7802, -104.9474	
	native @ 3'	
1203	ML-75-3-5	1.3
	39.7803 -104.9471	
	native @ 2'	
1246	ML-78-2-5	1.6
	39.7798, -104.9473	
	native @ 2'	
	ML-78-6-5	2.4
1307	39.7798, -104.9468	
	native @ 2'	
1315	offsite	

5/29/18

0700 on site, A. Decker w/ Family Environmental w/ Nathan w/ Vine Laboratories at 46th & Garfield (I-70)

0726 ML-81-4-5 1.4

0741 native @ 2'

ML-81-2-5 3.9

39.7803, -104.9453

native @ 2', wood, styrofoam

Rite in the Rain

5/29/18

		PID (ppm)
0756	ML 80-2-5	5.7
	39.7804, -104.9405	
	native @ 4'	
0809	ML 80-4-5	5.1
	39.7806, -104.9454	
	native @ 7'	
0827	ML-80-3-5	3.6
	39.7805, -104.9454	
	native @ 4'	
0851	ML-80-7-5	4.1
	39.7806, -104.9451	
	native @ 7	
0925	ML-82-1-5	4.1
	39.7806, -104.9451	
	native @ 5'	
0940	ST-60-2-2	3.2
	39.7809, -104.9446	
	native @ 5'	
1000	ST-62-1-5	2.9
	O 39.7810, -104.9450	
	native @ 6'	
1021	ST-62-3-5	5.4
	O 39.7807, -104.9446	
	native @ 4'	

5/29/18

		PID (ppm)
1032	ST-60-4-2	2.9
	O 39.7809, -104.9445	
	native @ 2'	
1046	ST-62-5-5	2.2
	O 39.7810, -104.9442	
	native 2'	
1104	ST-59-7-2	3.4
	O 39.7813, -104.9446	
	native 2'	
1123	ST-59-1-2	4.5
	O 39.7813, -104.9452	
	native 2'	
1209	ML-82-6-7 TD-24'	2.8 ✓
	39.7805, -104.9448	
	native @ 17'	
	ML-84-6-5	5.4 ✓
1300	39.7807, -104.9447	
	native @ 9'	
1320	ML-82-5-5	0.9 ✓
	O 39.7809, -104.9449	
	native @ 4'	
1341	ML-84-8-5	1.0
	O 39.7807, -104.9442	
	native @ 17'	

Rite in the Rain

5/29/18

		PID (ppm)
1457	ML-84-J-5	3.4 ✓
	39.7807, -104.9440	
	native @ 17'	
	ML-~~84-5~~ 82-9-5	1.1
1543	39.7805, -104.9444	
	native @ 18'	
1600	ML-83-7-5	1.2
	39.7805, -104.9448	
	native @ 2'	
1636	ML-84-6-5	1.2
	39.7805, -104.9444	
	native @ 2'	
1750	offsite	

5/30/18

0700	on site, MJ w/ family Environmental w/ Nathan w/ the Laboratories	
0730	ML-82-4-5	5.4
	native @ 2'	
0749	ML 80-8-5	8.1
	native @ 2'	

5/30/18 Jackson St

		PID (ppm)
0822	ML-86-2-6	8.5 ✓
	native @ 2'	
0836	ML-86-6-6	4.0 ✓
	native	
	fetusal @ 15' (cotton	
1017	ST-~~79~~ 64-1-2	2.6 ✓
	native @ 2'	
1030	ST-~~61-2~~ 64-3-2	4.5 ✓
	native @ 2'	
1048	ST 64-3-2	0.2 ✓
	native @ 2'	
1101	ST 66-2-2	0.1 ✓
	native @ 2'	
1118	ML-88-7-5	6.7 ✓
	native @ 2'	

Rite in the Rain

5/30/18 Jackson St

			PIP (ppm)
1211	ML-88-3-5		7.2 ✓
	native 7'		
1234	ML-86-8-5	ox. 29'	18.3 ✓
	native - NA refusal @ 26'		
1347	ML-86-6-5		5.4 ✓
	native @ 4'		
1410	ML-88-2-5		6.2
	native refusal @ 26'		
1521	ST66-2-2		4.7
	hand dig		
1524	ML-88-4-5		25.3
	refusal		
1620	ML-57-9-5		1.3
	hand dig		

6/4/18 Jackson St. PIP (ppm)

0700 on site, A. Decker w/ family
Environmental w/ Nathan Breed of
Vine Laboratories at Pilot Truck
Stop meeting w/ Iverson

0757	ML-68-7-5	0.0 ✓
	native @ 5'	
0818	ML-69-2-5	0.0 ✓
	native @ 6'	
0846	ML-69-4-5	~~0.0~~ 15.2 ✓
	native @ 5'	
0877	ML-69-8-5	22.6 ✓
	native @ 6'	
0924	ML-79-7-5	23.4 ✓
	native @ 9	
0957	ST63-1-2	1.5 ✓
	native @ 4'	
1014	ST63-7-2	16.5 ✓
	native @ 2'	
1043	ST61-7-2	9.7
	fill	
1100	ST61-1-2	7.0
	native @ 5'	
1108	ST-58-4-2	5.8
	native @ 4'	

Rite in the Rain

6/4/18 Jackson St

			PID ppm
1155	ST 65-J-2	TD-25'	6.7
	native		
1210	ST 65-2-2	TD-1'	10.5
	fill		
1356	ML-66-7-5	TD 24'	2.5
	native @ 7'		
1422	ML-78-5-5		8.4
	native @ 4'		
1541	ML-57-9-5		4.7
	grab sample		
1547	off site		

6/5/18

0700	on site, A. Becker w/ Family Environmental w/ Nathan Brach w/ Vine Laboratories at I-70 + Clayton St		
0720	ML 54-J-5		14.0 ✓
	native @ 2'		
0900	ML-56-1-5 → ML-56-2-5 ✓		4.0 ✓
	native 3'		
0830	ML-74-7-6		4.2 ~~8.2~~
	(hand auger)		
0851	ML-56-6-5		8.2
	(hand auger)		

6/5/18 Clayton St

		PID ppm
0907	ML 56-4-5	9.7
	native 4'	
0920	off site	

6/6/18 Steele

0700	on site, A. Becker w/ Vine Laboratories, H+S meeting	
0719	set up @ ML-66-1-5	1.2
	native @ 4'	
0755	ML-66-6-5	5.1
	native @ 4'	
0807	ML-66-9-6	2.1
	native @ 3'	
0824	ML-70-5-5	6.0
	native @ 4'	
0830	ML-70-9-5	0.6
	native @ 4'	
0900	ST 57-2-5	
	hand auger	
0918	ST 48-4-2	4.9
	native @ 3'	
0932	ST 49-3-2	12.7
	native @ 3'	

Rite in the Rain

6/6/18 Steele St

PID (ppm)

0852 ST 49-4-2
native 2' TD Fill @ 5' 14.9
ST 38-3-5 17.0
1041 native 9'
1104 ST 38-5-5 15.2
native @ 7'
1134 ST-39-6-5 1.9
native @ 9'
1144 ST 39-1-5 5.4
native @ 9'
1238 ST 39.4-5 14.9
native @ 5'
1259 ST 40-5-5 9.2
native @ 5'
1317 ST 41-8-5 31.8
native 2'
1356 ST 41-6-5 28.6
native @ 2'
1403 ST 41-2-5 18.8
native @ 5' 39.7810, -104.9504
1409 ST-38-9-5
39.7809 -104.9505
hand auger

6/6/18 Steele St

PID (ppm)

1454 ST 38-2-5
native @ 11' 22.9
1530 ~~ST 38-7-5~~ ST-40-8-5 1.2
native 5'
1600 off site

6/7/18 Steele St.

0700 AO on site, w/ Vine Laboratories
0748 ST 38-7-0 TD -13' 9.1
native 11'
0822 ST 39-3-5 11.3
native 8'
0840 ST 39-9-5 11.3
native 6'
ST-40-2-5 11.5
0909 native 7'
0924 ST-41-4-5 5.5
native 4'
1004 ST-79-2-2 12.6
native -Fill TD = 0'
1020 ST79-3-2 4.0
native -Fill TD = 0'
1028 ST78-2-2 5.9
native -Fill TD < 1
1041 ST-76-4-2 2.0
native -Fill TD < 1'

Rite in the Rain

6/7/18 Colorado

			PID (GHz)
1057	ST 78-1-2		4.8
	native - Fill		
1109	ST 76-1-2	TD = 0'	3.2
	native @ 2'		
1120	ST 75-2-2	TD = 2'	3.4
	native @ 2'		
	ST 74-3-2	TD = 5'	8.5
1134	native @ 2'		
1143	ST-73-1-2	TD = 3'	3.2
	native @ 2'		
1150	ST-74-1-2	TD = 4'	13.0
	native 2'		
1240	ML-48-2-5		19.9
	native @ 2'		
1255	ML-48-4-5		22.2
	native @ 2'		
1308	ML-48-8-5		6.3
	hand auger		
1319	ML-48-6-5		1.2
	native 2'		
1329	ML-50-3-5		4.7
	native 2'		

6/7/18

			PID (ppm)
1402	ST 32-7-2		B.L
	native @ 2'	39.7807, -104.9535	
1415	ST 39-2-2		7.8
	native - Fill	TD = 2'	
	39.7807, -104.9529		
~~1438~~	ST 36-1-2	TD = 11'	3.4
1456	39.7809, -104.9517, native @ 5'		
1498	ST 34-4-2	TD = 4'	4.2
	39.7809, -104.9520		
1519	ST 46-3-2	TD = 6'	9.1
	native @ 4'		
	39.7807, -104.9505		
1530	offsite		

Rite in the Rain

2

~~ML-93-1-5~~
12:05

asphalt base
from 1-2 ft
thin native

ML-93-8.5
1:05
native at 1

~~ST-77-4-2~~

6-1-18

ST 69.3.2 2 ppm
7.55 depth @ 1 ft
0 ppm

~~ST 63~~
ST-77-4-2 0 ppm
8:15 depth 1 ft

ML-88-9.5 0 ppm
@ 1 ft
8:48

ST-67-1-2 0 ppm
9:15 @ 1 ft

Rite in the Rain

6-7-18

ST-69-1-2
9:25
no ppm
1 ft Native

ST-67-4-2
9:45
no ppm
1 ft native

ST-69-3-2
10:20
0 ppm
1 native

ML-68-5-5
11:20
0 ppm
1 ft native

ML-68-1-5
11:35
0 ppm
½ inch of asphalt at 4 ft, then native

ML-83-9-5
12:25
1.5-2 native
0 ppm
approx 6" of asphalt at 2' then native

ML-83-3-5
12:40
0 ppm
- Native at 2 at 1 ft, approx 1 ft asphalt

ML-81-6-5
12:55
0 ppm
native at 1.5'
at 1 ft, approx 6" asphalt

Rite in the Rain

6

ML-78-9-5
13:10 1' Native
0 ppm
no asphalt observed at 1 ~~foot~~

ML-75-9-5
13:44 1' Native
0 ppm

ML-75-6-5
14:00 0 ppm
6" soil 6" asphalt
then native at 1'

6-1-18

ML-75-2-5 4' native
14:10 0 ppm
appears to be brick in soil to ≈4'

ML-73-6-5 1' native
14:25 0 ppm
asphalt to 1' then native

ML-73-1-5
(1.5) 2' native
15:00 ppm
1' foot soil, ≈6 inches asphalt, native

ML-70-6-5 1' foot soil
15:15 1' foot asphalt
then native at 2'
0 ppm

Rite in the Rain

8

ML-66-7-5

15:55

1' Soil
8" asphalt
native at 1'8"

0 ppm

ML-70-2-5

16:10

1' soil
8" asphalt
native at 1'8"

0 ppm

6/5/18

ML S4.3.5
ML S6.1.5

6-5-18

ML-56-5-5

9:25

Depth to N 1 foot

13.6 ppm VOC

ML-54-2-5

9:44

Depth to N 4'

asphalt at ≈3.5'

VOC 26.6 ppm

ML-54-9-5

9:55

Depth to N @ 1'

VOC 21.3 ppm

Rite in the Rain

6-5-18
ML-54-6-5
10:12
Depth to N @ 1'
VOC @ 53.1 ppm

ST-33-4-2
10:50
Depth to N @ 0-0.5'
VOC @ 41.6 ppm

ST-35-3-2
11:05
Depth to N @ 1.0'
VOC @ 44.4 ppm

ST-35-2-2 11:15
Depth to N @ 0-0.5'
VOC @ 28.6 ppm

ST-37-3-2 11:25
Depth to N @ 0.0-0.5'
VOC @ 24.6 ppm

ST-37-2-2 11:45
Depth to N @ 0.0-0.5'
VOC @ 58.3 ppm

ST-42-2-2 12:35
Depth to N @ 0-0.5'
VOC @ 36.8 3-5
49.1 1-3

Rite in the Rain

12

6-5-18 only to 2.5 ft

ST-42-4-2

13:10
- Native at 2.5 ft
- VOC at 31.2 ppm
- asphalt at 2-2.5 ft thin native

ST-55-1-2 to 6'

13:45
Native @ 0-0.5 feet
VOC 57.3 ppm @ 3-5'
VOC 44.2 ppm @ 1'-5'

6-5-18 only to 1.5

ST-51-4-2

14:02
Native at 0.0-0.5
36 ppm VOC @ 1'-3'

---

only to 1.5

ST-51-2-2

14:20
Native at 0.0-0.5
VOC at 24.8

ST-57-5-2

14:40
Native at
VOC at 29.3 1-3'
" " 30.6 3-5'

Rite in the Rain

6-5-18

ST-SS-3-2

15:00

Natural 4' Sent
Concrete at 4 feet ≈ 1 inch fuck them mothers

Voc @ 25.1 ppm 1-3'

" " 17.3 ppm 3'-5'

Rite in the Rain.

Monitoring Technician Log

ID: 2018071239562.0

Title:	ST15-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:44 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

10:59 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST15-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779629@-104.963522

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6BF1D3C2-60A7-4496-9CAA-34B40E46CE7C.jpg	7/12/2018 11:00:33 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST15-70' - 0.5'
		Location ST15-7-5
		Time 11:00 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST15-7 0.5' - 1'
		Location ST15-7-5
		Time 11:00 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST15-7 1' - 5'
		Location ST15-7-5

Time 11:00 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:44 PM

Appendix: Attachments

Attachment #1
IMG_6BF1D3C2-60A7-4496-9CAA-34B40E46CE7C.jpg



Monitoring Technician Log

ID: 2018071240372.0

Title:	ST15-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:44 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

11:12 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST15-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779769@-104.963403

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8DC92054-38B2-4B3F-94CB-1E022D01BF6D.jpg	7/12/2018 11:13:21 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

8

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST15-8 0' - 0.5'
		Location ST15-8-5
		Time 11:16 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - 0.5' - 1'
		Location ST15-8-5
		Time 11:16 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST15-8-5 1' - 5'
		Location ST15-8-5

Time 11:16 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ST15-8 5'

Location ST15-8-5

Time 11:20 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:44 PM

Appendix: Attachments

Attachment #1
IMG_8DC92054-38B2-4B3F-94CB-1E022D01BF6D.jpg



Monitoring Technician Log

ID: 2018070948454.0

Title:	ST18-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:00 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

01:27 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ST18-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780903@-104.961141

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CEA55D23-F6CA-4848-B79B-647B33D853F9.jpg	7/9/2018 1:29:51 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST18-4-2 0' - 0.5'
		Location ST18-4-2
		Time 01:31 pm
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST18-4-2 0.5' - 1'
		Location ST18-4-2
		Time 01:31 pm
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST18-4-2 1' - 3'
		Location ST18-4-2

Time 12:13 PM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ST18-4-2- 3' - 5'

Location ST18-4-2

Time 12:15 PM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:00 PM

Appendix: Attachments

Attachment #1
IMG_CEA55D23-F6CA-4848-B79B-647B33D853F9.jpg



Monitoring Technician Log

ID: 2018071057967.0

Title:	ST21-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:49 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

03:06 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

North UPRR yard

2 Excavation Location(s)

Location: ST21-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782374@-104.959134

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2AFCC990-78FA-4D85-A89B-DDB70F4FF1C2.jpg	7/10/2018 4:07:15 PM

4 Identification of Vertical Horizon

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	4	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB - ST-21-3-2 0' - 0.5'	
	Location ST-21-3-2 0	
	Date 07/10/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - 0.5' - 1'	
	Location ST-21-3-2 0	
	Date 07/10/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB ST-21-3-2 0- 1' - 3’	
	Time 03:18 PM	

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:49 PM

Appendix: Attachments

Attachment #1
IMG_2AFCC990-78FA-4D85-A89B-DDB70F4FF1C2.jpg



Monitoring Technician Log

ID: 2018072344771.0

Title:	ST31-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:46 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

12:26 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Clayton

2 Excavation Location(s)

Location: ST31-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779847@-104.954235

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_76FD801E-47C3-448D-9EDE-4C2F36BD9246.jpg	7/23/2018 12:27:40 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB ST31-4-2- 0' - 0.5'
		Location ST31-4-2
		Time 12:28 PM
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST31-4-2 0.5' - 1'
		Location ST31-4-2
		Time 12:28 PM
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST31-4-2 1' - 3'
		Location ST31-4-2

Time 12:29 PM

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - 3' - 5'

Time 12:31 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:46 PM

Appendix: Attachments

Attachment #1
IMG_76FD801E-47C3-448D-9EDE-4C2F36BD9246.jpg



Monitoring Technician Log

ID: 20180703352.0

Title:	ST34-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/8/2018 6:28 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

02:58 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

corner of Vasquez and Milwaukee

2 Excavation Location(s)

Location: ST34-4-2

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2952.jpg	7/8/2018 6:26:47 PM

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7809@-104.9520

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	2' intervals
	Sample ID CSB -ST34-4- 0' - 0.5'
	Location ST34-4-2
	Time 02:39 PM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST34-4-0.5' - 1'
	Location ST34-4-
	Time 02:39 PM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST34-4-1' - 3'
	Location ST34-4-2
	Time 02:39 PM

Date 07/03/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST34-4-3' - 5'

Location ST34-4-2

Time 02:39 PM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/08/2018 6:27 PM

Appendix: Attachments

Attachment #1
IMG_2952.jpg



Monitoring Technician Log

ID: 20180703343.0

Title:	ST36-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/9/2018 1:56 PM (Central Time)

1 General Information

1 Date

06/07/2018

2 Time

02:56 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

2 Excavation Location(s)

Location: ST36-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.7808@-104.9517

Attachments:

Attachment Name	Associated to Event Date/Time
ST36-1-2.jpg	7/9/2018 1:56:13 PM

5 Depth to Native Material (feet)

5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	2' intervals
	Sample ID CSB - ST36-1-0' - 0.5'
	Location ST36-1-2
	Time 02:36 PM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB -ST36-1- 0.5' - 1'
	Location ST36-1-2
	Time 02:36 PM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST36-1- 1' - 3'
	Location ST36-1-2
	Time 02:36 PM
	Date 06/07/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - ST36-1-3' - 5'

Location ST36-1-2

Time 02:36 PM

Date 06/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Mia Steenkamp - 07/09/2018 1:56 PM

Appendix: Attachments

Attachment #1
ST36-1-2.jpg



Monitoring Technician Log

ID: 2018071251593.0

Title:	ST72-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:48 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

02:19 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST72-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782571@-104.941038

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_30182145-10DC-4A4C-AFC6-719D0798555A.jpg	7/12/2018 2:20:44 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB -ST72-2 0' - 0.5'
		Location ST72-2-2
		Time 02:21 pm
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST72-2 0.5' - 1'
		Location ST72-2-2
		Time 02:21 pm
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST72-21' - 3'
		Location ST72-2

Time 02:21 pm

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - 3' - 5'

Time 02:21 pm

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:48 PM

Appendix: Attachments

Attachment #1
IMG_30182145-10DC-4A4C-AFC6-719D0798555A.jpg



Monitoring Technician Log

ID: 2018071250881.0

Title:	ST73-2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:48 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

02:08 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST73-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782354@-104.941078

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4FA2203B-97A8-4682-9E23-6E7D266E0DCC.jpg	7/12/2018 2:09:04 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST73-2 0' - 0.5'
		Location ST73-2-2
		Time 02:09 pm
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST73-2- 0.5' - 1'
		Location ST73-2-2
		Time 02:09 pm
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST73-2- 1' - 3'
		Location ST73-2-2

Time 02:09 pm

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - 3' - 5'

Time 02:09 pm

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:48 PM

Appendix: Attachments

Attachment #1
IMG_4FA2203B-97A8-4682-9E23-6E7D266E0DCC.jpg



Monitoring Technician Log

ID: 2018062739234.0

Title:	ST-98-1-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	27 Jun 2018
Reporter:	Alex Becker	**Status:**	Complete 7/10/2018 2:51 PM (Central Time)

1 General Information

1 Date

06/27/2018

2 Time

10:53 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST98-1-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780770@-104.939419

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EBD0F175-465D-44D7-BA55-2CE2A2BCA91B.jpg	6/27/2018 10:54:57 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB - ST98-1- 0' - 0.5'
		Location ST98-1-2
		Time 11:05 AM
		Date 06/27/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST98-1- 0.5' - 1'
		Location ST98-1-2
		Time 11:05 AM
		Date 06/27/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST98-1- 1' - 3'
		Location ST98-1-2

Time 11:06 AM

Date 06/27/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB -ST98-1- 3' - 5'

Location ST98-1-2

Time 11:06 AM

Date 06/27/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Mia Steenkamp - 07/09/2018 5:20 PM

Appendix: Attachments

Attachment #1
IMG_EBD0F175-465D-44D7-BA55-2CE2A2BCA91B.jpg



Monitoring Technician Log

ID: 2018072346012.0

Title:	ST312-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:47 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

12:46 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Tennyson

2 Excavation Location(s)

Location: ST31-2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779939@-104.954862

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C4CDD9CE-D763-4FD1-823C-05B9748EF625.jpg	7/23/2018 12:48:15 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	2	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB ST31-2-2- 0' - 0.5'	
	Location ST31-2-2	
	Time 12:48 pm	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB ST31-2-2- 0.5' - 1'	
	Location ST31-2-2	
	Time 12:48 pm	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB ST31-2-2- 1' - 3'

Location ST31-2-2

Time 12:48 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB - 3' - 5'

Time 12:48 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:47 PM

Appendix: Attachments

Attachment #1
IMG_C4CDD9CE-D763-4FD1-823C-05B9748EF625.jpg



Monitoring Technician Log

ID: 2018072545863.0

Title:	EN4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:17 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

12:44 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779902@-104.938125

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FCBAF738-81B2-47B6-96B0-97BDF4A341F8.jpg	7/25/2018 12:45:17 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ENS4-2 0’-3’
		Location ES4-2
		Time 12:46 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:17 PM

Appendix: Attachments

Attachment #1
IMG_FCBAF738-81B2-47B6-96B0-97BDF4A341F8.jpg



Monitoring Technician Log

ID: 2018073055858.0

Title:	EN148-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:10 PM (Central Time)

1 General Information

1 Date

07/30/2018

2 Time

03:30 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN148-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778459@-104.911715

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_873E3325-2F0E-4FED-A223-EACA743A49CB.jpg	7/30/2018 3:38:30 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN148-1 0’-1’
		Location EN148-1
		Date 07/30/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Megan Shirley - 08/09/2018 12:10 PM

Appendix: Attachments

Attachment #1
IMG_873E3325-2F0E-4FED-A223-EACA743A49CB.jpg



Monitoring Technician Log

ID: 2018073054886.0

Title:	EN150-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:11 PM (Central Time)

1 General Information

1 Date

07/30/2018

2 Time

03:14 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN150-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778515@-104.911118

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E831D144-3E12-4594-90A0-0B910B4F7BCC.jpg	7/30/2018 3:18:23 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN150-1 0’-1’
		Location EN150-1
		Time 03:19 pm
		Date 07/30/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:11 PM

Appendix: Attachments

Attachment #1
IMG_E831D144-3E12-4594-90A0-0B910B4F7BCC.jpg



Monitoring Technician Log

ID: 2018073053907.0

Title:	EN152-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:10 PM (Central Time)

1 General Information

1 Date

07/30/2018

2 Time

02:58 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN152-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778492@-104.910519

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0C652C7F-B7B1-4BFF-B387-3EC78F490031.jpg	7/30/2018 3:00:07 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

5	Depth to Native Material (feet)
	Fill at 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN152-1 0’-1’
	Location EN152-1
	Time 03:11 pm
	Date 07/30/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Megan Shirley - 08/09/2018 12:09 PM

Appendix: Attachments

Attachment #1
IMG_0C652C7F-B7B1-4BFF-B387-3EC78F490031.jpg



Monitoring Technician Log

ID: 2018073042932.0

Title:	EN154-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:11 PM (Central Time)

1 General Information

1 Date

07/30/2018

2 Time

11:55 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN154-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778505@-104.909953

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_81DAD89B-7C6F-46F1-BE8B-A2C2232D83FB.jpg	7/30/2018 11:58:01 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5’
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN154-1 0’-2’
		Location EN154-1
		Time 11:58 am
		Date 07/30/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:11 PM

Appendix: Attachments

Attachment #1
IMG_81DAD89B-7C6F-46F1-BE8B-A2C2232D83FB.jpg



Monitoring Technician Log

ID: 2018072536465.0

Title:	EN206-14		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:33 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

10:07 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES206-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778541@-104.896930

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7E3DDA4F-A32E-4E6B-B419-252C230640A5.jpg	7/25/2018 10:10:13 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES206-20 0’-3’
		Location ES206-20
		Time 10:15 am
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:22 PM

Appendix: Attachments

Attachment #1
IMG_7E3DDA4F-A32E-4E6B-B419-252C230640A5.jpg



Monitoring Technician Log

ID: 2018072536994.0

Title:	EN208-14		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:17 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

10:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES-208-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778512@-104.896750

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_59266AB5-16BA-4E21-AEF5-F34859C08586.jpg	7/25/2018 10:17:50 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES208-20 0'-5'
		Location ES208-20
		Time 10:25 am
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:17 PM

Appendix: Attachments

Attachment #1
IMG_59266AB5-16BA-4E21-AEF5-F34859C08586.jpg



Monitoring Technician Log

ID: 2018072546577.0

Title:	ES6-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:21 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

12:56 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES6-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779928@-104.937576

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CEC90994-EFB8-4A2B-B436-5185B03F5C62.jpg	7/25/2018 12:57:46 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES6-2 0’-3’
		Location ES6-2
		Time 01:03 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:21 PM

Appendix: Attachments

Attachment #1
IMG_CEC90994-EFB8-4A2B-B436-5185B03F5C62.jpg



Monitoring Technician Log

ID: 2018072547187.0

Title:	ES8-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:15 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

01:06 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES8-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779881@-104.937283

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6C38928A-AFFD-4AF9-B4F2-46FD6DC5D84E.jpg	7/25/2018 1:07:20 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES8-2 0’-4’
		Location ES8-2
		Time 01:14 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:15 PM

Appendix: Attachments

Attachment #1
IMG_6C38928A-AFFD-4AF9-B4F2-46FD6DC5D84E.jpg



Monitoring Technician Log

ID: 2018072547745.0

Title:	ES10-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:21 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

01:15 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES10-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779914@-104.936776

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DA0E0294-C242-4B87-8C47-508AC21FBDEB.jpg	7/25/2018 1:18:04 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES10-2 0’-2’
		Location ES10-2
		Time 01:23 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:21 PM

Appendix: Attachments

Attachment #1
IMG_DA0E0294-C242-4B87-8C47-508AC21FBDEB.jpg



Monitoring Technician Log

ID: 2018072548549.0

Title:	ES12-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:21 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

01:29 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES12-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779861@-104.936212

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_ECA514CC-8F2D-4FFD-946B-130F4C801AAD.jpg	7/25/2018 1:30:22 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES12-2 0’-3’
		Location ES12-2
		Time 01:33 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:21 PM

Appendix: Attachments

Attachment #1
IMG_ECA514CC-8F2D-4FFD-946B-130F4C801AAD.jpg



Monitoring Technician Log

ID: 2018072552120.0

Title:	ES98-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:16 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

02:28 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES98-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778155@-104.920432

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1DDCA2E6-6424-41E2-A628-096020BB671C.jpg	7/25/2018 2:45:32 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.8	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Add another	
	Sample ID ES98-3 0’-3’	
	Location ES98-3	
	Time 02:45 pm	
	Date 07/25/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	
	Submit Initiated By: Megan Shirley - 08/09/2018 2:16 PM	

Appendix: Attachments

Attachment #1
IMG_1DDCA2E6-6424-41E2-A628-096020BB671C.jpg



Monitoring Technician Log

ID: 2018072554248.0

Title:	ES100-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:16 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

03:04 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES100-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778119@-104.920243

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_59E58BB4-732A-44B6-AECD-6405203A18A9.jpg	7/25/2018 3:05:13 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES100-3 0’-3’
		Location ES100-3
		Time 03:11 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:16 PM

Appendix: Attachments

Attachment #1
IMG_59E58BB4-732A-44B6-AECD-6405203A18A9.jpg



Monitoring Technician Log

ID: 2018072554841.0

Title:	ES102-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:17 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

03:14 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES102-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778101@-104.919992

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2AD69ED7-E573-4EE5-89B8-BE62744DC1ED.jpg	7/25/2018 3:15:13 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES102-3 0’-3’
		Location ES102-3
		Time 03:20 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:17 PM

Appendix: Attachments

Attachment #1
IMG_2AD69ED7-E573-4EE5-89B8-BE62744DC1ED.jpg



Monitoring Technician Log

ID: 2018072555336.0

Title:	ES104-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:20 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

03:22 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES104-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778134@-104.919654

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_40C687ED-1710-45DA-82A6-BFBD1F026DC4.jpg	7/25/2018 3:23:10 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES104-3 0’-3’
		Location ES104-3
		Time 03:30 pm
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:20 PM

Appendix: Attachments

Attachment #1
IMG_40C687ED-1710-45DA-82A6-BFBD1F026DC4.jpg



Monitoring Technician Log

ID: 2018072555985.0

Title:	ES106-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:20 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

03:33 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES106-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778157@-104.919389

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4AD72380-35E5-4FFE-A01A-D13E15EB6476.jpg	7/25/2018 3:34:10 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES106-3 0’-3’
		Location ES106-3
		Time 03:41 PM
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:20 PM

Appendix: Attachments

Attachment #1
IMG_4AD72380-35E5-4FFE-A01A-D13E15EB6476.jpg



Monitoring Technician Log

ID: 2018072630686.0

Title:	ES108-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:12 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

08:31 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES108-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778110@-104.919418

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BF53FD18-61A6-47B6-9432-758A74FDB148.jpg	7/26/2018 8:32:56 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES108-3 0’-3’
		Location ES108-3
		Time 08:33 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:12 PM

Appendix: Attachments

Attachment #1
IMG_BF53FD18-61A6-47B6-9432-758A74FDB148.jpg



Monitoring Technician Log

ID: 2018072632247.0

Title:	ES110-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:14 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

08:57 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES110-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778116@-104.919124

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AD44AF4E-490B-4D74-A3DC-D905605F18FF.jpg	7/26/2018 9:02:00 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES110-3 0’-3’
		Location ES110-3
		Time 09:11 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:14 PM

Appendix: Attachments

Attachment #1
IMG_AD44AF4E-490B-4D74-A3DC-D905605F18FF.jpg



Monitoring Technician Log

ID: 2018072633158.0

Title:	ES112-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:15 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

09:12 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES112-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778087@-104.918802

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AF1EDE0C-7FD8-42B9-91B6-AE0CC224C3C1.jpg	7/26/2018 9:21:05 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES112-3 0’-3’
		Location ES112-3
		Time 09:21 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:15 PM

Appendix: Attachments

Attachment #1
IMG_AF1EDE0C-7FD8-42B9-91B6-AE0CC224C3C1.jpg



Monitoring Technician Log

ID: 2018072633913.0

Title:	ES114-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:25 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

09:25 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES114-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778124@-104.918548

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D454467E-BCBE-44F0-89B8-2DFE5421CF39.jpg	7/26/2018 9:26:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES114-3 1’-3’
		Location ES114-3
		Time 09:35 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:09 PM

Appendix: Attachments

Attachment #1
IMG_D454467E-BCBE-44F0-89B8-2DFE5421CF39.jpg



Monitoring Technician Log

ID: 2018072634721.0

Title:	ES116-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:10 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

09:38 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES116-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778117@-104.918259

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1E28ACDE-EA37-4F63-8C05-D4715D8341F6.jpg	7/26/2018 9:40:01 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES116-3 1’-3’
		Location ES116-3
		Time 09:38 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:10 PM

Appendix: Attachments

Attachment #1
IMG_1E28ACDE-EA37-4F63-8C05-D4715D8341F6.jpg



Monitoring Technician Log

ID: 2018072635146.0

Title:	ES118-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:09 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

09:45 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES118-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778116@-104.917977

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.2	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Add another	
	Sample ID ES118-3 0’-3’	
	Location ES118-3	
	Time 09:55 am	
	Date 07/26/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	
5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	
	Submit Initiated By: Megan Shirley - 08/09/2018 2:09 PM	

Monitoring Technician Log

ID: 2018072635806.0

Title:	ES120-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:14 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

09:56 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES120-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778130@-104.917610

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_29C78B5B-C1D0-4AFE-B16D-A4C495719819.jpg	7/26/2018 9:59:14 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES120-3 0’-3’
		Location ES120-3
		Time 10:06 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:14 PM

Appendix: Attachments

Attachment #1
IMG_29C78B5B-C1D0-4AFE-B16D-A4C495719819.jpg



Monitoring Technician Log

ID: 2018072636586.0

Title:	ES122-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:14 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

10:09 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES122-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778125@-104.917407

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DE9F4A57-6197-453E-8B54-D13923D14F00.jpg	7/26/2018 10:11:27 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES122-3 0’-5’
		Location ES122-3
		Time 10:19 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:14 PM

Appendix: Attachments

Attachment #1
IMG_DE9F4A57-6197-453E-8B54-D13923D14F00.jpg



Monitoring Technician Log

ID: 2018072637607.0

Title:	ES124-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:13 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

10:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES124-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778143@-104.917136

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_95306017-29B9-4C6B-9ED8-C6995A125F35.jpg	7/26/2018 10:28:06 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES124-3 0’-5’
		Location ES124-3
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:13 PM

Appendix: Attachments

Attachment #1
IMG_95306017-29B9-4C6B-9ED8-C6995A125F35.jpg



Monitoring Technician Log

ID: 2018072638105.0

Title:	ES126-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:25 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

10:35 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES126-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778135@-104.916770

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_72E96897-E3F1-4AFE-98A2-7EB04BE2D9B2.jpg	7/26/2018 10:36:36 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES126-3 1’-3’
		Location ES126-3
		Time 10:43 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:16 PM

Appendix: Attachments

Attachment #1
IMG_72E96897-E3F1-4AFE-98A2-7EB04BE2D9B2.jpg



Monitoring Technician Log

ID: 2018072638788.0

Title:	ES128-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:13 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

10:46 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES128-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778113@-104.915753

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0863E90D-DC34-428C-9B31-AAB150233BA0.jpg	7/26/2018 10:48:21 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES128-3 0’-3’
		Location ES128-3
		Time 10:59 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:13 PM

Appendix: Attachments

Attachment #1
IMG_0863E90D-DC34-428C-9B31-AAB150233BA0.jpg



Monitoring Technician Log

ID: 2018072639108.0

Title:	ES130-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:25 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

10:51 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES130-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778120@-104.915361

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EED263EB-777B-4AE0-84C7-BC6B6B04FDD2.jpg	7/26/2018 10:52:13 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES130-3 0’-3’
		Location ES130-3
		Time 11:20 am
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 12:15 PM

Appendix: Attachments

Attachment #1
IMG_EED263EB-777B-4AE0-84C7-BC6B6B04FDD2.jpg



Monitoring Technician Log

ID: 2018072531371.0

Title:	ES205-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:19 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

08:42 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES205-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778024@-104.895672

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C1FEFD31-6A98-4CF8-AAE8-206896A1785B.jpg	7/25/2018 8:43:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.0
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES205-20 0’-3’
		Location ES205-20
		Time 08:50 am
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:19 PM

Appendix: Attachments

Attachment #1
IMG_C1FEFD31-6A98-4CF8-AAE8-206896A1785B.jpg



Monitoring Technician Log

ID: 2018072532096.0

Title:	ES207-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:20 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

08:54 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES207-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778041@-104.895589

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A545B54D-8277-4E85-A3A5-E7A83836734B.jpg	7/25/2018 8:55:42 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES207-20 0'-
	Location ES207-20
	Time 09:02 am
	Date 07/25/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Megan Shirley - 08/09/2018 2:20 PM

Appendix: Attachments

Attachment #1
IMG_A545B54D-8277-4E85-A3A5-E7A83836734B.jpg



Monitoring Technician Log

ID: 2018072533419.0

Title:	ES209-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	25 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:21 PM (Central Time)

1 General Information

1 Date

07/25/2018

2 Time

09:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES209-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778018@-104.895490

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EC1CE9DE-6C14-44B8-A17A-FA6CC92E0576.jpg	7/25/2018 9:19:22 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES209-20 0'-5'
		Location ES209-20
		Time 09:24 am
		Date 07/25/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:21 PM

Appendix: Attachments

Attachment #1
IMG_EC1CE9DE-6C14-44B8-A17A-FA6CC92E0576.jpg



Monitoring Technician Log

ID: 2018072355877.0

Title:	ES211-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:47 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

03:31 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: ES211-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778080@-104.895375

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3444A072-84A4-4754-8280-5F9F5C98601E.jpg	7/23/2018 3:32:42 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES211-20
		Location ES211-20
		Time 03:42 PM
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:47 PM

Appendix: Attachments

Attachment #1
IMG_3444A072-84A4-4754-8280-5F9F5C98601E.jpg



Monitoring Technician Log

ID: 2018072356729.0

Title:	ES213-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:44 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

03:45 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: ES211-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778033@-104.895264

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1E2CF10F-A5EF-4FB9-8C25-5E6E9B6262EC.jpg	7/23/2018 3:46:29 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES211-20
		Location ES211-20
		Time 03:47 PM
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:44 PM

Appendix: Attachments

Attachment #1
IMG_1E2CF10F-A5EF-4FB9-8C25-5E6E9B6262EC.jpg



Monitoring Technician Log

ID: 2018072357683.0

Title:	ES215-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:45 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

04:01 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES215-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778037@-104.895205

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_65147129-1E0D-4755-ACD5-B22BCFADFBDF.jpg	7/23/2018 4:04:34 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.8

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

Add another

Sample ID ES215-20

Location ES215-20

Time 04:09 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:45 PM

Appendix: Attachments

Attachment #1
IMG_65147129-1E0D-4755-ACD5-B22BCFADFBDF.jpg



Monitoring Technician Log

ID: 2018072358374.0

Title:	ES217-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:45 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

04:12 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES217-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778024@-104.895096

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7076AB94-0E63-47B4-975C-58607A2F55F0.jpg	7/23/2018 4:13:52 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 23
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES217-20
		Location ES217-20
		Time 04:14 pm
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:45 PM

Appendix: Attachments

Attachment #1
IMG_7076AB94-0E63-47B4-975C-58607A2F55F0.jpg



Monitoring Technician Log

ID: 2018072352527.0

Title:	ES219-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:46 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

02:35 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: ES219-20

3 Field Screening/Monitoring

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 2:46 PM

Monitoring Technician Log

ID: 2018072358878.0

Title:	ES219-20		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:46 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

04:21 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Rain

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I225

2 Excavation Location(s)

Location: ES219-20

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778011@-104.895006

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_49BF8EB4-5298-4BAC-9ABD-414CB5BB23EB.jpg	7/23/2018 4:22:30 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES219-20
		Location ES219-20
		Time 04:24 pm
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Megan Shirley - 08/09/2018 2:46 PM

Appendix: Attachments

Attachment #1
IMG_49BF8EB4-5298-4BAC-9ABD-414CB5BB23EB.jpg



Monitoring Technician Log

ID: 2018070943070.0

Title:	ML 42-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:00 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

10:57 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Columbine

2 Excavation Location(s)

Location: ML 42-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780634@-104.956792

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_634D54D6-0C5C-4374-9B33-CF924C0EE15F.jpg	7/9/2018 12:00:12 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML42-4-5- 0' - 0.5'
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML-42-4-5- 0.5' - 1'
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML 42-4-5- 1' - 5'
		Time 10:54 AM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 5:00 PM

Appendix: Attachments

Attachment #1
IMG_634D54D6-0C5C-4374-9B33-CF924C0EE15F.jpg



Monitoring Technician Log

ID: 2018070939693.0

Title:	ML 43-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:57 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

11:01 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Columbine

2 Excavation Location(s)

Location: ML 43-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780626@-104.956429

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_ECBB75D0-A4DE-4B6E-AA04-57D1769E77D5.jpg	7/9/2018 11:09:05 AM

4 Identification of Vertical Horizon

Select those that apply. Shallow Unsaturated Soil

Select those that apply. Unsaturated Native Soil

5 Depth to Native Material (feet)

Refusal at 15

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		Yes
		If yes, please explain further Wood, Red brick, and white brick
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
4	Analytical	
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML-43-1-5- 0' - 0.5'
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML-43-1-5 - 0.5' - 1'
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML-43-1-5- 1' - 5'
		Time 10:04 AM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Add another

Sample ID ML-43-1-5-5-10

Time 10:06 AM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ML-43-1-5-10-15

Time 10:08 AM

Date 07/09/2018

Media Soil

Analysis Asbestos

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:57 PM

Appendix: Attachments

Attachment #1
IMG_ECBB75D0-A4DE-4B6E-AA04-57D1769E77D5.jpg



Monitoring Technician Log

ID: 2018072335630.0

Title:	ML5-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:44 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

09:53 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ML5-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780062@-104.967047

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E05D4F2C-E7D6-4B40-9161-E980C8F263B9.jpg	7/23/2018 9:57:11 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST11-3-2 0' - 0.5'
		Location ST11-3-2
		Time 09:57 am
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST11-3-2 0.5' - 1'
		Location ST11-3-2
		Time 09:57 am
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB -ST11-3-2 1' - 5'

Location ST11-3-2

Time 09:57 am

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

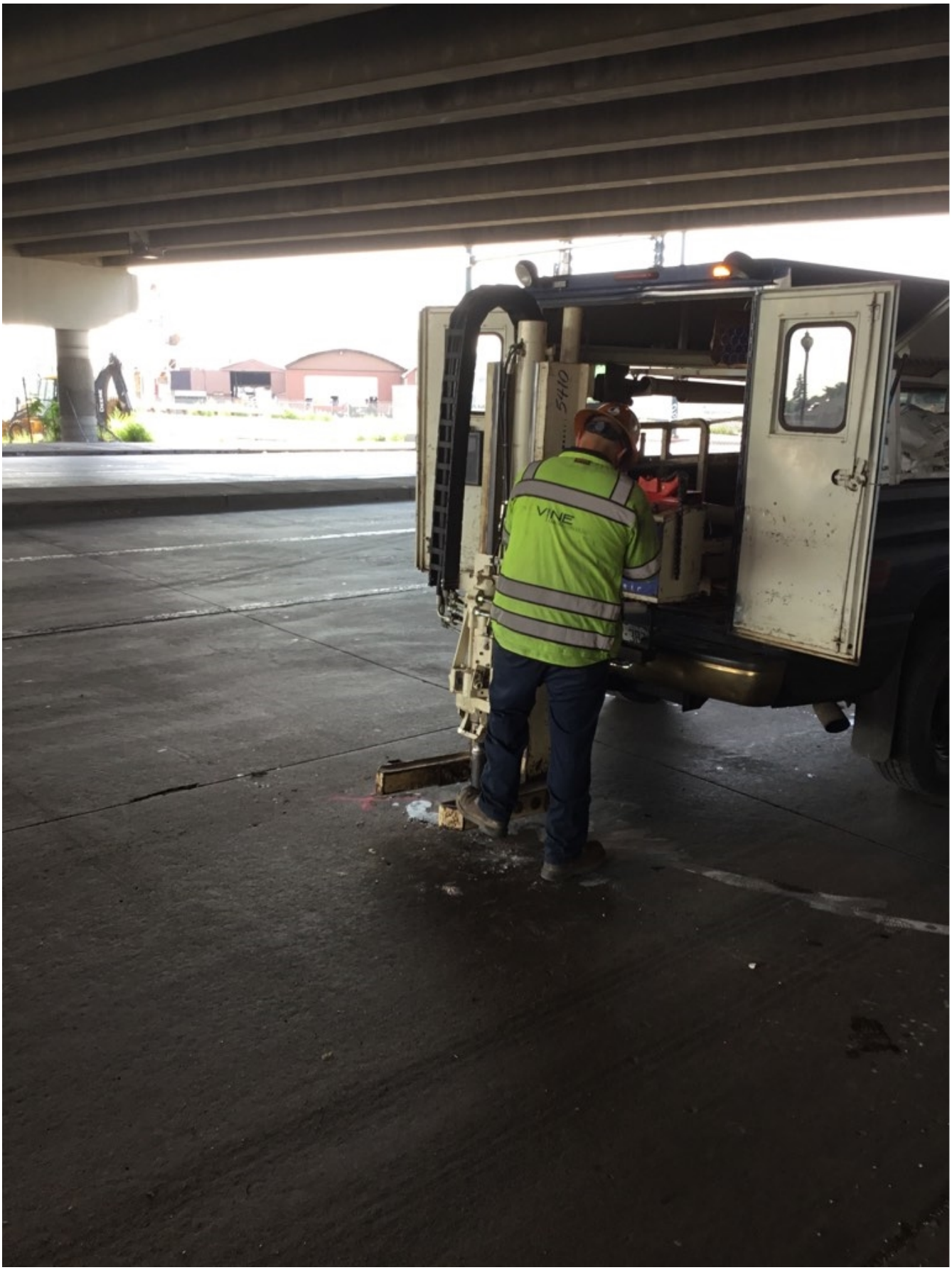
Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:44 PM

Appendix: Attachments

Attachment #1
IMG_E05D4F2C-E7D6-4B40-9161-E980C8F263B9.jpg



Monitoring Technician Log

ID: 2018072336561.0

Title:	ML6-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:33 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

10:09 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ML6-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779983@-104.967124

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BC2B1709-3037-4D0F-A7A8-E3D054555D7D.jpg	7/23/2018 10:10:38 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill at 5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.9	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB -ML6-8-5 0' - 0.5'	
	Location ML6-8-5	
	Time 10:11 am	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB ML6-8-5- 0.5' - 1'	
	Location ML6-8-5	
	Time 10:11 am	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB -ML6-8-5 1' - 5'

Location ML6-8-5

Time 10:11 am

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

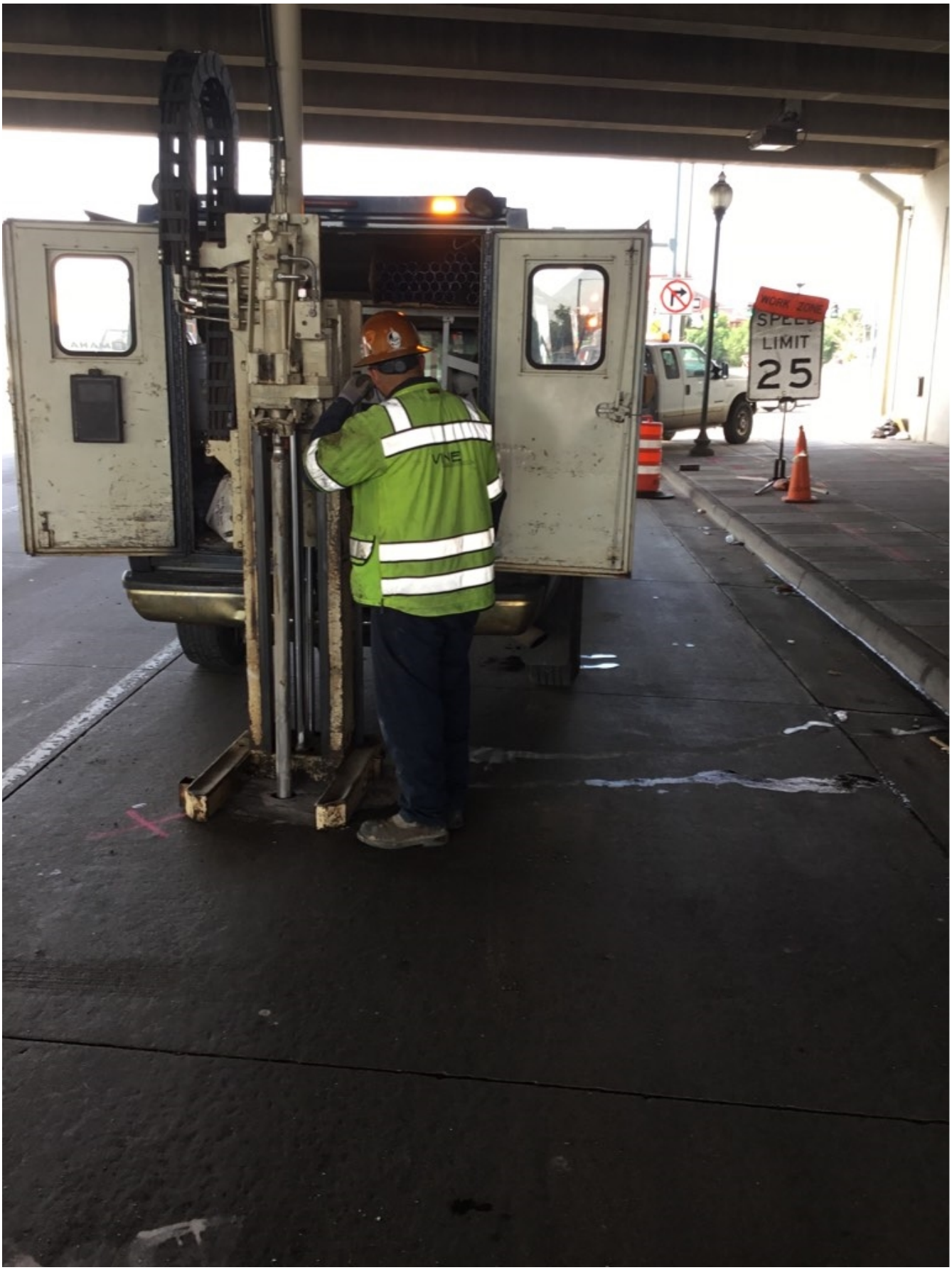
Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:33 PM

Appendix: Attachments

Attachment #1
IMG_BC2B1709-3037-4D0F-A7A8-E3D054555D7D.jpg



Monitoring Technician Log

ID: 2018072337577.0

Title:	ML6-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:45 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

10:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ML6-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779892@-104.967182

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E551B217-81A8-4102-A21C-910718D0BF38.jpg	7/23/2018 10:29:51 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Fill at 5	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.5	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ML6-9-5 0' - 0.5'	
	Location ML6-9-5	
	Time 10:31 am	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ML6-9-5 0.5' - 1'	
	Location ML6-9-5	
	Time 10:31 am	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ML6-9-5 1' - 5'

Location ML6-9-5

Time 10:31 am

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:45 PM

Appendix: Attachments

Attachment #1
IMG_E551B217-81A8-4102-A21C-910718D0BF38.jpg



Monitoring Technician Log

ID: 2018071236515.0

Title:	ML17-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:38 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

10:08 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ML17-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779803@-104.964643

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_225DF5C0-9BFF-4EEB-BD33-1B77104270B7.jpg	7/12/2018 10:09:21 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML17-1 0' - 0.5'
		Location ML17-1-5
		Time 10:10 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML17-1 0.5' - 1'
		Location ML17-1-5
		Time 10:10 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML17-1 1' - 5'
		Location ML17-1-5

Time 10:10 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Time 10:13 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:38 PM

Appendix: Attachments

Attachment #1
IMG_225DF5C0-9BFF-4EEB-BD33-1B77104270B7.jpg



Monitoring Technician Log

ID: 2018072645282.0

Title:	ML23-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:13 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

12:34 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vine

2 Excavation Location(s)

Location: ML23-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780191@-104.962320

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1F4373F8-F19A-4114-B502-917938654ED9.jpg	7/26/2018 12:35:53 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

19

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML23-1-5- 0' - 0.5'
		Location ML23-1-5
		Time 12:52 pm
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML23-1-5 0.5' - 1'
		Location ML23-1-5
		Time 12:52 pm
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML23-1-5- 1' - 5'
		Location ML23-1-5

Time 12:52 pm

Date 07/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ML23-1-5 5'-10'

Location ML23-1-5

Time 01:08 pm

Date 07/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ML23-1-5 10'-15'

Location ML23-1-5

Time 01:08 pm

Date 07/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ML23-1-5 15-19'

Location ML23-1-5

Time 01:08 pm

Date 07/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 12:13 PM

Appendix: Attachments

Attachment #1
IMG_1F4373F8-F19A-4114-B502-917938654ED9.jpg



Monitoring Technician Log

ID: 2018072341448.0

Title:	ML23-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:44 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

11:30 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

RR

2 Excavation Location(s)

Location: ML23-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780212@-104.962443

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9D16F8ED-06AE-4988-BEE0-4F09F70A7100.jpg	7/23/2018 11:32:10 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Refusal at 2.5	
3	Field Screening/Monitoring	
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.8	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB -ML23-2-5 0' - 0.5'	
	Location ML23-2-5	
	Time 11:33 AM	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB ML23-2-5- 0.5' - 1'	
	Location ML23-2-5	
	Time 11:33 AM	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ML23-2-5 1' - 5'

Location ML23-2-5

Time 11:34 AM

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:44 PM

Appendix: Attachments

Attachment #1
IMG_9D16F8ED-06AE-4988-BEE0-4F09F70A7100.jpg



Monitoring Technician Log

ID: 2018072644208.0

Title:	ML23-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	26 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:12 PM (Central Time)

1 General Information

1 Date

07/26/2018

2 Time

12:16 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vine

2 Excavation Location(s)

Location: ML23-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780329@-104.962165

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D6CDC68B-E38E-4ECC-9093-C7186CFB83CC.jpg	7/26/2018 12:17:41 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

8

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML23-4-5- 0' - 0.5'
		Location ML23-4-5
		Time 12:30 pm
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML23-4-5- 0.5' - 1'
		Location ML23-4-5
		Time 12:30 pm
		Date 07/26/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML23-4-5 1' - 5'
		Location ML23-4-5

Time 12:30 pm

Date 07/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ML23-4-5 5'-8'

Location ML23-4-5

Date 07/26/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 12:12 PM

Appendix: Attachments

Attachment #1
IMG_D6CDC68B-E38E-4ECC-9093-C7186CFB83CC.jpg



Monitoring Technician Log

ID: 2018072343095.0

Title:	ML23-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:44 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

11:58 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

RR

2 Excavation Location(s)

Location: ML23-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780118@-104.962818

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_36B89E7C-3134-4ACA-BD25-53189DA24110.jpg	7/23/2018 11:59:16 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Refusal at 2.5	
3	Field Screening/Monitoring	
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.2	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB -ML23-5-5 0' - 0.5'	
	Location ML23-5-5	
	Time 11:59 am	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB -ML23-5-5 0.5' - 1'	
	Location ML23-5-5	
	Time 11:59 am	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ML23-5-5 1' - 5'

Location ML23-5-5

Time 11:59 am

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

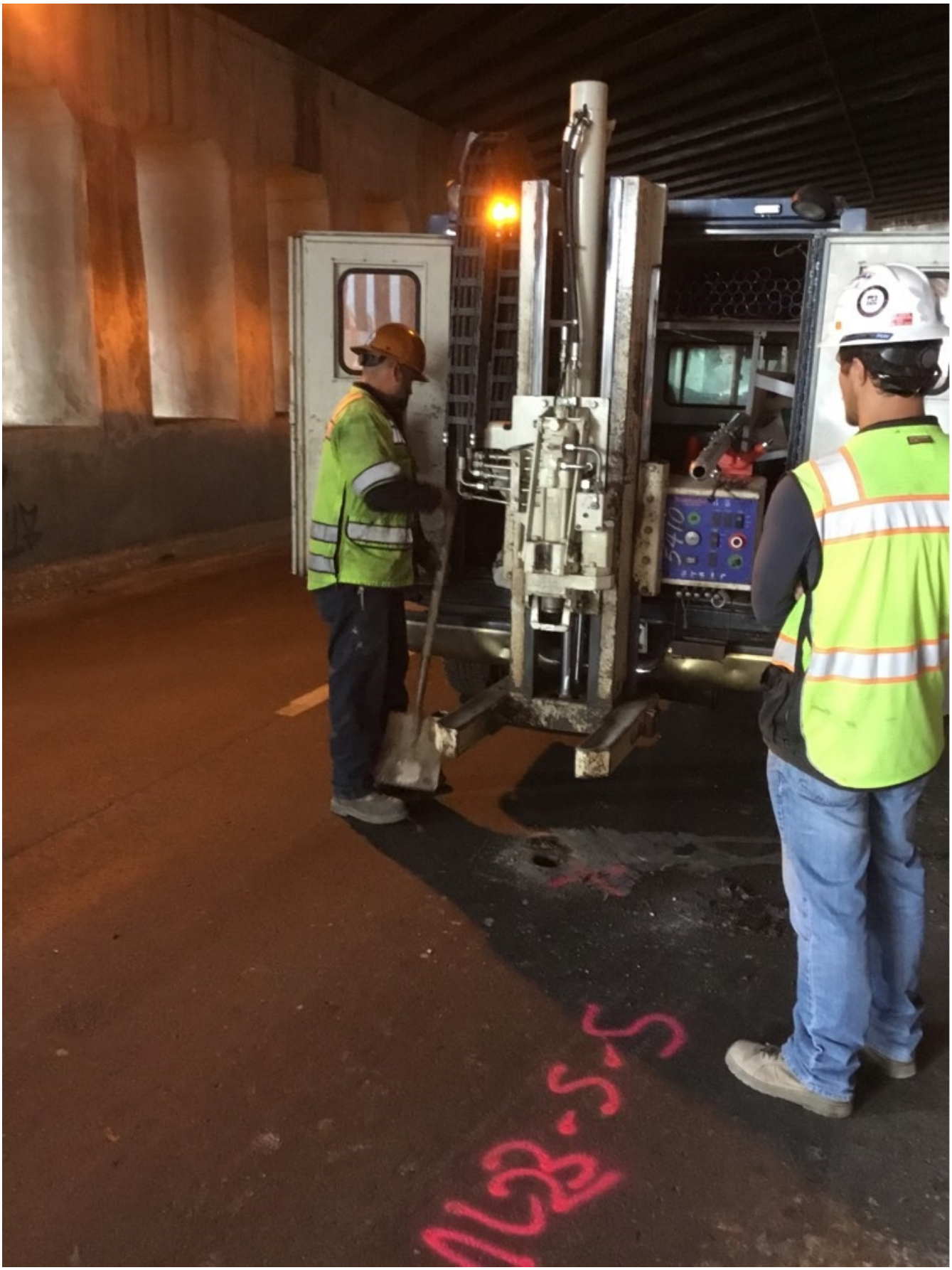
Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:44 PM

Appendix: Attachments

Attachment #1
IMG_36B89E7C-3134-4ACA-BD25-53189DA24110.jpg



Monitoring Technician Log

ID: 2018070962172.0

Title:	ML23-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:02 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

05:16 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML23-7-5

3 GPS or Survey Location of RHM Origination

39.7802, -104.9511

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.6

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB -ML23-7-5 0' - 0.5'
	Location ML23-7-5
	Time 05:17 pm
	Date 07/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML23-7-5- 0.5' - 1'
	Location ML23-7-5
	Time 05:17 pm
	Date 07/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ML23-7-5 1' - 5'
	Location ML23-7-5
	Time 05:17 pm
	Date 07/09/2018
	Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:02 PM

Monitoring Technician Log

ID: 2018072343885.0

Title:	ML23-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:47 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

12:11 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

RR

2 Excavation Location(s)

Location: ML23-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777898@-104.963534

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2ACF67B1-68FD-404F-9A5D-2A689382816C.jpg	7/23/2018 12:12:28 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	Refusal at 2.5’	
3	Field Screening/Monitoring	
1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.8	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	5' intervals	
	Sample ID CSB - ML23-8-5 0' - 0.5'	
	Location ML23-8-5	
	Time 12:13 pm	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ML23-8-5 0.5' - 1'	
	Location ML23-8-5	
	Time 12:13 pm	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB -ML23-8-5 1' - 5'

Location ML23-8-5

Time 12:13 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

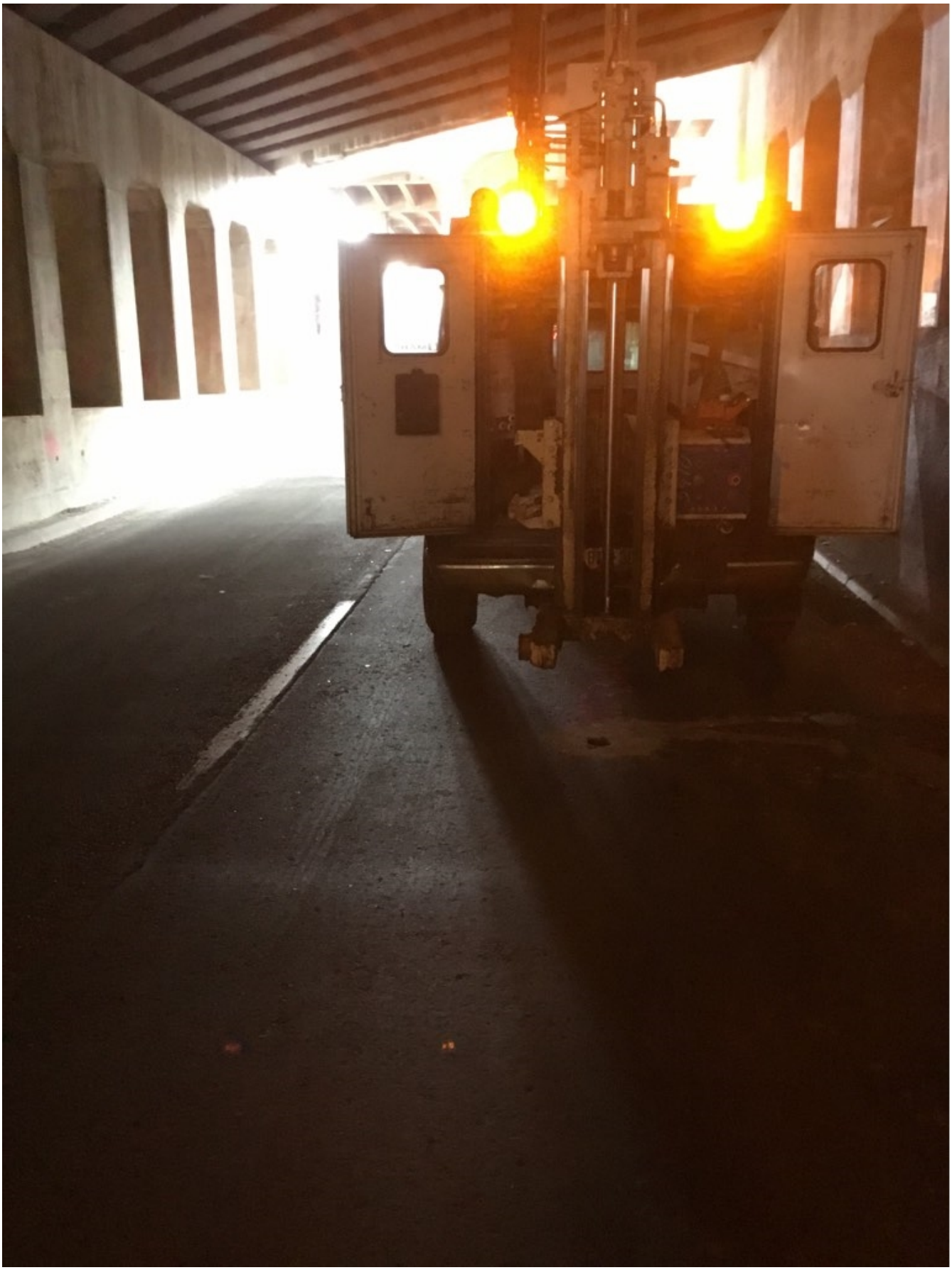
Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:47 PM

Appendix: Attachments

Attachment #1
IMG_2ACF67B1-68FD-404F-9A5D-2A689382816C.jpg



Monitoring Technician Log

ID: 2018071233374.0

Title:	ML24-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:40 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

09:16 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vine

2 Excavation Location(s)

Location: ML24-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780701@-104.962149

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_10A2792C-63D9-4FBC-BF11-3B0D5C9DEB7D.jpg	7/12/2018 9:17:38 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML24-1 0' - 0.5'
		Location ML24-1-5
		Time 09:21 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-1 0.5' - 1'
		Location ML24-1-5
		Time 09:21 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-1 1' - 5'
		Location ML24-1-5

Time 09:21 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:40 PM

Appendix: Attachments

Attachment #1
IMG_10A2792C-63D9-4FBC-BF11-3B0D5C9DEB7D.jpg



Monitoring Technician Log

ID: 2018071235039.0

Title:	ML24-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:39 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

09:44 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vine

2 Excavation Location(s)

Location: ML24-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780378@-104.962043

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F3C5E641-5AD4-4467-96A6-EBFFB296F384.jpg	7/12/2018 9:44:31 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

6

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML24-3 0' - 0.5'
		Location ML24-3-5
		Time 09:47 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-3 0.5' - 1'
		Location ML24-3-5
		Time 09:47 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML24-3 1' - 5'
		Location ML24-3-5

Time 09:47 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB -ML24-3 5'-6'

Location ML24-3-5

Time 09:53 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:39 PM

Appendix: Attachments

Attachment #1
IMG_F3C5E641-5AD4-4467-96A6-EBFFB296F384.jpg



Monitoring Technician Log

ID: 2018071232612.0

Title:	ML24-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:48 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

09:03 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vine

2 Excavation Location(s)

Location: ML24-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780545@-104.962062

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0608F4C8-E0A2-41EF-A70C-CE584562B030.jpg	7/12/2018 9:04:47 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML24-5 0' - 0.5'
		Location ML24-5-5
		Time 09:05 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-5 0.5' - 1'
		Location ML24-5-5
		Time 09:05 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-51' - 5'
		Location ML24-5-5

Time 09:05 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:48 PM

Appendix: Attachments

Attachment #1
IMG_0608F4C8-E0A2-41EF-A70C-CE584562B030.jpg



Monitoring Technician Log

ID: 2018071234233.0

Title:	ML24-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:48 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

09:30 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Vine

2 Excavation Location(s)

Location: ML24-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780570@-104.961809

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_36DAFCB9-9F8E-4687-8AF4-9A2216DCAB05.jpg	7/12/2018 9:31:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

6

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML24-7 0' - 0.5'
		Location ML24-7-5
		Time 09:33 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-7 0.5' - 1'
		Location ML24-7-5
		Time 09:33 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML24-7 1' - 5'
		Location ML24-7-5

Time 09:33 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB - ML24-7 5'-6'

Location ML24-7-5

Time 09:37 AM

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 2:48 PM

Appendix: Attachments

Attachment #1
IMG_36DAFCB9-9F8E-4687-8AF4-9A2216DCAB05.jpg



Monitoring Technician Log

ID: 2018070961465.0

Title:	ML24-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:04 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

05:04 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML24-9-5

3 GPS or Survey Location of RHM Origination

39.7803, -104.9616

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: 4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.0

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB ML24-9-5- 0' - 0.5'
	Location ML24-9-5
	Time 05:06 pm
	Date 07/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB -ML24-9-5 0.5' - 1'
	Location ML24-9-5
	Time 05:06 pm
	Date 07/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB -ML24-9-5 1' - 5'
	Location ML24-9-5
	Time 05:06 pm
	Date 07/09/2018
	Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:04 PM

Monitoring Technician Log

ID: 2018070958640.1

Title:	ML25-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:00 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

04:17 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML25-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780459@-104.961608

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_572A033F-0B38-4BD4-BDA7-2B85B330346B.jpg	7/9/2018 4:18:39 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML25-2-5 0' - 0.5'
		Location ML25-2-5
		Time 04:46 PM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML25-2-5 0.5' - 1'
		Location ML25-2-5
		Time 04:46 PM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML25-2-5 - 1' - 5'
		Location ML25-2-5

Time 04:46 PM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:00 PM

Appendix: Attachments

Attachment #1
IMG_572A033F-0B38-4BD4-BDA7-2B85B330346B.jpg



Monitoring Technician Log

ID: 2018071045234.0

Title:	ML25-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:49 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

12:33 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML26-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780329@-104.961607

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C10973D1-83B4-40BB-B5F5-B9D7BB8BFD6B.jpg	7/10/2018 12:34:40 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML26-4- 0' - 0.5'
		Location ML26-4-5
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML26-4- 0.5' - 1'
		Location ML26-4-5
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML26-4- 1' - 5'
		Location ML26-4
		Date 07/10/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:49 PM

Appendix: Attachments

Attachment #1
IMG_C10973D1-83B4-40BB-B5F5-B9D7BB8BFD6B.jpg



Monitoring Technician Log

ID: 2018071044693.0

Title:	ML25-4-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:55 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

12:24 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML25-4-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780237@-104.961579

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4287A99F-C1C9-4C77-A000-AD89FEE80268.jpg	7/10/2018 12:25:58 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML25-4 0' - 0.5'
		Location ML25-4-5
		Time 12:46 pm
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML25-4 0.5' - 1'
		Location ML25-4-5
		Time 12:46 pm
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML25-4-5 1' - 5'
		Location ML25-4-5

Time 12:46 pm

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:55 PM

Appendix: Attachments

Attachment #1
IMG_4287A99F-C1C9-4C77-A000-AD89FEE80268.jpg



Monitoring Technician Log

ID: 2018070953553.0

Title:	ML25-6		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:03 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

02:52 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML25-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780605@-104.961444

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3A27D308-48F6-4EDF-B4DF-6B38CA6F5857.jpg	7/9/2018 4:00:16 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML25-6-5 0' - 0.5'
		Location ML25-6-5
		Time 04:13 pm
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML25-6-5 0.5' - 1'
		Location ML25-6-5
		Time 04:13 pm
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML25-6-5- 1' - 5'
		Location ML25-6-5

Time 04:13 pm

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:03 PM

Appendix: Attachments

Attachment #1
IMG_3A27D308-48F6-4EDF-B4DF-6B38CA6F5857.jpg



Monitoring Technician Log

ID: 2018071046182.0

Title:	ML-25-8		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:53 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

11:36 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

2 Excavation Location(s)

Location: ML-25-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780391@-104.961417

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F0CDB084-D551-43A6-B9DC-63C0F8394A89.jpg	7/10/2018 12:52:50 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.0

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB ML-25-3-5 - 0' - 0.5'
	Location ML-25-3-5
	Time 01:03 pm
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-25-3-5- 0.5' - 1'
	Location ML-25-3-5
	Time 01:03 pm
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-25-3-5- 1' - 5'
	Location ML-25-3-5
	Time 11:36 AM

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:53 PM

Appendix: Attachments

Attachment #1
IMG_F0CDB084-D551-43A6-B9DC-63C0F8394A89.jpg



Monitoring Technician Log

ID: 2018071047139.0

Title:	ML-25-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:56 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

12:05 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780472@-104.961368

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3D59C7A0-3EBD-4D8B-80E0-77432D4035DE.jpg	7/10/2018 1:06:35 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB ML-25-8-5- 0' - 0.5'
	Location ML-25-8-5
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-25-8-5- 0.5' - 1'
	Location ML-25-8-5
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-25-8-5- 1' - 5'
	Location ML-25-8-5
	Time 11:57 AM
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:56 PM

Appendix: Attachments

Attachment #1
IMG_3D59C7A0-3EBD-4D8B-80E0-77432D4035DE.jpg



Monitoring Technician Log

ID: 2018071042955.0

Title:	ML26-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:47 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

11:55 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML26-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780382@-104.961787

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8D934E7A-97B7-4C02-8874-87D3EF27D557.jpg	7/10/2018 11:59:50 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 13’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML26-2 0' - 0.5'
		Location ML26-2-5
		Time 12:28 pm
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML26-2- 0.5' - 1'
		Location ML26-2-5
		Time 12:28 pm
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML26-2 - 1' - 5'
		Location ML26-2-5

Time 12:28 pm

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:47 PM

Appendix: Attachments

Attachment #1
IMG_8D934E7A-97B7-4C02-8874-87D3EF27D557.jpg



Monitoring Technician Log

ID: 2018070952633.0

Title:	ML27-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:02 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

02:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML27-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780770@-104.961242

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_18B009B1-D23A-46A8-8445-EAB6BBDED899.jpg	7/9/2018 2:39:35 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		Yes
		If yes, please explain further Slag
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML27-1-5- 0' - 0.5'
		Location ML27-1-5
		Time 02:51 pm
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML27-1-5 0.5' - 1'
		Location ML27-1-5
		Time 02:51 pm
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML27-1-5- 1' - 5'

Location ML27-1-5

Time 01:40 PM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:02 PM

Appendix: Attachments

Attachment #1
IMG_18B009B1-D23A-46A8-8445-EAB6BBDED899.jpg



Monitoring Technician Log

ID: 2018071036810.0

Title:	ML27-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:50 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

10:13 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML27-2-5

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:50 PM

Monitoring Technician Log

ID: 2018071048317.0

Title:	ML-27-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:46 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

12:25 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780604@-104.961180

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6EBFBC89-37B8-434A-ABAC-3FF976E31CCB.jpg	7/10/2018 1:30:32 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB ML-27-2-5- 0' - 0.5'
	Location ML-27-2-5- 0
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ML-27-2-5- 0 0.5' - 1'
	Location ML-27-2-5- 0
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-27-2-5- 0- 1' - 5'
	Location ML-27-2-5
	Time 12:25 PM
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:46 PM

Appendix: Attachments

Attachment #1
IMG_6EBFBC89-37B8-434A-ABAC-3FF976E31CCB.jpg



Monitoring Technician Log

ID: 2018071047238.0

Title:	ML27-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:48 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

12:11 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780528@-104.961254

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9D169868-9DA0-499F-8165-3EC36852226F.jpg	7/10/2018 1:07:49 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB ML-25-7-5 - 0' - 0.5'
	Location ML-25-7-5
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-25-7-5 - 0.5' - 1'
	Location ML-25-7-5
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-25-7-5 - 1' - 5'
	Location ML-25-7-5
	Time 12:08 PM
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:48 PM

Appendix: Attachments

Attachment #1
IMG_9D169868-9DA0-499F-8165-3EC36852226F.jpg



Monitoring Technician Log

ID: 2018071047888.0

Title:	ML-27-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:46 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

01:18 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780558@-104.961244

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E878992B-0FA1-4A98-BD54-09BA31D6A9A6.jpg	7/10/2018 1:31:29 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 12.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB - ML-27-3-7 0' - 0.5'
	Location ML-27-3-7
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-27-3-7- 0.5' - 1'
	Location ML-27-3-7
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML-27-3-7- 1' - 5'
	Location ML-27-3-7
	Time 12:17 PM
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:46 PM

Appendix: Attachments

Attachment #1
IMG_E878992B-0FA1-4A98-BD54-09BA31D6A9A6.jpg



Monitoring Technician Log

ID: 2018071034337.0

Title:	ML27-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:55 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

09:32 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML27-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780739@-104.961028

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C0DB53D3-5EA6-47B0-8DD1-6E5DDE710062.jpg	7/10/2018 9:33:16 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: 4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.5
7	Additional Screening Comments/Observations:
	PID calibrated

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB -ML27-4 0' - 0.5'
	Location ML27-4-5
	Time 09:51 am
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML27-4- 0.5' - 1'
	Location ML27-4-5
	Time 09:51 am
	Date 07/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML27-4- 1' - 5'

Location ML27-4-5

Time 09:51 am

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:55 PM

Appendix: Attachments

Attachment #1
IMG_C0DB53D3-5EA6-47B0-8DD1-6E5DDE710062.jpg



Monitoring Technician Log

ID: 2018071035685.0

Title:	ML27-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:48 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

09:54 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML27-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780663@-104.961088

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_03B1178B-275E-4993-A0FE-4A18051B2BB8.jpg	7/10/2018 9:55:58 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML27-5 0' - 0.5'
		Location ML27-5-5
		Time 10:09 am
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML27-5 0.5' - 1'
		Location ML27-5-5
		Time 10:09 am
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML27-5- 1' - 5'
		Location ML27-5-5

Time 10:09 am

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:48 PM

Appendix: Attachments

Attachment #1
IMG_03B1178B-275E-4993-A0FE-4A18051B2BB8.jpg



Monitoring Technician Log

ID: 2018071033437.0

Title:	ML27-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:48 PM (Central Time)

1 General Information

1 Date

07/10/2018

2 Time

09:17 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML27-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780744@-104.960980

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4E018FE8-0399-49E3-9592-F2F7CDFF8973.jpg	7/10/2018 9:18:31 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML27-7- - 0' - 0.5'
		Location ML27-7-5
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML27-7-- 0.5' - 1'
		Location ML27-7-5
		Time 08:29 AM
		Date 07/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML27-7-- 1' - 5'
		Location ML27-7-5
		Time 09:29 AM

Date 07/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:48 PM

Appendix: Attachments

Attachment #1
IMG_4E018FE8-0399-49E3-9592-F2F7CDFF8973.jpg



Monitoring Technician Log

ID: 2018071231238.0

Title:	ML27-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:39 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

08:40 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Railroad

2 Excavation Location(s)

Location: ML27-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780506@-104.961010

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_870715A0-0503-42BC-986D-2FA3ECC9C5FE.jpg	7/12/2018 8:45:41 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.9
	7	Additional Screening Comments/Observations:
		PIP calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML27-9 0' - 0.5'
		Location ML27-9-5
		Time 08:46 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ML27-9 0.5' - 1'
		Location ML27-9-5
		Time 08:46 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB - ML27-9 1' - 5'

Location ML27-9-5

Time 08:46 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:39 PM

Appendix: Attachments

Attachment #1
IMG_870715A0-0503-42BC-986D-2FA3ECC9C5FE.jpg



Monitoring Technician Log

ID: 2018070932107.0

Title:	ML42-2-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:01 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

08:55 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Elizabeth

2 Excavation Location(s)

Location: ML42-2-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780506@-104.956939

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F881F04B-FC57-4FCC-B599-57C57666FCFE.jpg	7/9/2018 8:56:04 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2.2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.2
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ML42-2-5 0' - 0.5'
		Location ML42-2-5
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML42-2-5 0.5' - 1'
		Location ML42-2-5
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML42-2-5- 1' - 5'
		Location ML42-2-5

Time 08:00 AM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:01 PM

Appendix: Attachments

Attachment #1
IMG_F881F04B-FC57-4FCC-B599-57C57666FCFE.jpg



Monitoring Technician Log

ID: 2018071132638.1

Title:	ML-42-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	11 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:45 PM (Central Time)

1 General Information

1 Date

07/11/2018

2 Time

09:03 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling to be submitted for geotechnical analysis

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Columbine and 46th north east corner

2 Excavation Location(s)

Location: ML-42-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780290@-104.956947

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4F001907-CD23-4F45-AB6E-181B691247D0.jpg	7/11/2018 9:08:22 AM

3 Field Screening/Monitoring

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:45 PM

Appendix: Attachments

Attachment #1
IMG_4F001907-CD23-4F45-AB6E-181B691247D0.jpg



Monitoring Technician Log

ID: 2018070934309.0

Title:	ML42-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 12:05 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

09:31 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Columbine

2 Excavation Location(s)

Location: ML42-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780405@-104.956703

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9C16AE4C-DB1E-433F-BC16-A9AAF8413F3A.jpg	7/9/2018 9:33:36 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML-42-6-5- 0' - 0.5'
		Location Ml-42-6-5
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML-42-6-5- 0.5' - 1'
		Location Ml-42-6-5
		Time 09:46 am
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB Ml-42-6-5- 1' - 5'
		Location Ml-42-6-5
		Time 08:26 AM

Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_9C16AE4C-DB1E-433F-BC16-A9AAF8413F3A.jpg



Monitoring Technician Log

ID: 2018070936539.0

Title:	ML42-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 7/9/2018 10:30 AM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

10:09 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Columbine

2 Excavation Location(s)

Location: ML-42–8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780430@-104.956613

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6E5D8394-C99A-44D6-B385-6D7505AFA20B.jpg	7/9/2018 10:19:25 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

8

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML-42-8-5-0' - 0.5'
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML-42-8-5-0 - 5’-
		Time 09:12 AM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML-42-8-5-0- 1' - 5'
		Time 09:12 AM
		Date 07/09/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By:

Appendix: Attachments

Attachment #1
IMG_6E5D8394-C99A-44D6-B385-6D7505AFA20B.jpg



Monitoring Technician Log

ID: 2018070554341.0

Title:	ML43-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:05 PM (Central Time)

1 General Information

1 Date

07/05/2018

2 Time

03:05 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Elizabeth

2 Excavation Location(s)

Location: ML43-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780380@-104.956372

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_130B9EC8-CEFC-42C1-B2B4-E4E81487C4CA.jpg	7/5/2018 3:39:51 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

10

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.2
8	If you have answered NO to all questions in this section, please submit the completed report now.
	Complete Form Initiated By: Megan Shirley - 08/09/2018 12:02 PM

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB -ML43-3 0' - 0.5'
	Location ML43-3
	Time 03:11 PM
	Date 07/05/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB ML43-3- 0.5' - 1'
	Location ML43-3
	Time 03:11 PM
	Date 07/05/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America

Sample ID CSB ML43-3- 1' - 5'

Location ML43-3

Time 01:52 PM

Date 07/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:05 PM

Appendix: Attachments

Attachment #1
IMG_130B9EC8-CEFC-42C1-B2B4-E4E81487C4CA.jpg



Monitoring Technician Log

ID: 2018070555750.0

Title:	ML43-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:04 PM (Central Time)

1 General Information

1 Date

07/05/2018

2 Time

03:29 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Elizabeth

2 Excavation Location(s)

Location: ML43-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780534@-104.956332

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_278FA355-43ED-4B9B-A95D-21409DC5A6B8.jpg	7/5/2018 3:31:03 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Red brick

	5	Depth to Native Material (feet)
		7
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5
	8	If you have answered NO to all questions in this section, please submit the completed report now.
		Complete Form Initiated By: Megan Shirley - 08/09/2018 12:01 PM
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ML43-5 0' - 0.5'
		Location ML43-5
		Time 03:32 pm
		Date 07/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ML43-5 0.5' - 1'
		Location ML43-5
		Time 03:32 pm
		Date 07/05/2018
		Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB ML43-5- 1' - 5'

Location ML43-5

Time 03:32 pm

Date 07/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ML43-5-5'-7'

Location ML43-5

Time 02:17 PM

Date 07/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:04 PM

Appendix: Attachments

Attachment #1
IMG_278FA355-43ED-4B9B-A95D-21409DC5A6B8.jpg



Monitoring Technician Log

ID: 2018070938927.1

Title:	ML43-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:58 PM (Central Time)

1 General Information

1 Date

07/09/2018

2 Time

10:48 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 90

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Elizabeth

2 Excavation Location(s)

Location: ML-43-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780604@-104.956050

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B69E496B-0709-4DF3-B168-31F91FCDE4B2.jpg	7/9/2018 10:52:05 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML43-7-5- 0' - 0.5'
		Time 12:03 PM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML43-7-5- 0.5' - 1'
		Time 12:03 PM
		Date 07/09/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML43-7-5- 1' - 5'
		Location Elizabeth
		Time 09:51 AM
		Date 07/09/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

3 Additional Comments

55 gallon drum at Vine

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine

Submit Initiated By: Megan Shirley - 08/09/2018 4:58 PM

Appendix: Attachments

Attachment #1
IMG_B69E496B-0709-4DF3-B168-31F91FCDE4B2.jpg



Monitoring Technician Log

ID: 2018070552560.0

Title:	ML43-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	5 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 5:05 PM (Central Time)

1 General Information

1 Date

07/05/2018

2 Time

02:36 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Elizabeth

2 Excavation Location(s)

Location: ML43-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780385@-104.956068

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F448E1DF-2FF8-4430-8C71-F4B660C08E87.jpg	7/5/2018 3:37:48 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 11.3
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ML43-9-5- 0' - 0.5'
		Location ML43-9-5
		Time 02:38 PM
		Date 07/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ML43-9-5- 0.5' - 1'
		Location ML43-9-5
		Time 02:38 PM
		Date 07/05/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB ML43-9-5- 1' - 5'

Location ML43-9-5

Time 01:31 PM

Date 07/05/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 5:05 PM

Appendix: Attachments

Attachment #1
IMG_F448E1DF-2FF8-4430-8C71-F4B660C08E87.jpg



Monitoring Technician Log

ID: 2018072349472.0

Title:	ML72-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:43 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

01:44 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ST72-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.782550@-104.940458

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F4046BBD-1056-4A4B-835A-2F4297193759.jpg	7/23/2018 1:46:15 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)	
	3	

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?	
	No	
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.6	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	2' intervals	
	Sample ID CSB -ST72-3-2 0' - 0.5'	
	Location ST72-3-2	
	Time 01:47 pm	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
	Sample ID CSB - ST72-3-2 0.5' - 1'	
	Location ST72-3-2	
	Time 01:47 pm	
	Date 07/23/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	

Sample ID CSB - ST72-3-2 1' - 3'

Location ST72-3-2

Time 01:47 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB -ST72-3-2 3' - 5'

Location ST72-3-2

Time 01:47 pm

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:43 PM

Appendix: Attachments

Attachment #1
IMG_F4046BBD-1056-4A4B-835A-2F4297193759.jpg



Monitoring Technician Log

ID: 2018072332571.0

Title:	ST11-3-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 2:47 PM (Central Time)

1 General Information

1 Date

07/23/2018

2 Time

09:02 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST11-3-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779815@-104.964953

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CBF87148-D59F-4D86-BD4B-91211B81C11C.jpg	7/23/2018 9:04:07 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at5’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.9
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		2' intervals
		Sample ID CSB -ST11-3 0' - 0.5'
		Location ST11-3
		Time 08:06 AM
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST11-30.5' - 1'
		Location ST11-3-2
		Time 09:12 am
		Date 07/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America

Sample ID CSB - ST11-31' - 3'

Location ST11-3-2

Time 09:10 AM

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Sample ID CSB -ST11-3 3' - 5'

Location ST11-3-2

Time 08:08 AM

Date 07/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 2:47 PM

Appendix: Attachments

Attachment #1
IMG_CBF87148-D59F-4D86-BD4B-91211B81C11C.jpg



Monitoring Technician Log

ID: 2018071237486.0

Title:	ST13-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 3:35 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

10:24 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST13-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779737@-104.964685

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0D3059A4-713B-40FB-A933-60FAAE828974.jpg	7/12/2018 10:25:51 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST13-5 0' - 0.5'
		Location ST13-5-5
		Time 10:26 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST13-5 0.5' - 1'
		Location ST13-5-5
		Time 10:26 am
		Date 07/12/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST13-5 1' - 5'
		Location ST13-5-5

Time 10:26 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 3:35 PM

Appendix: Attachments

Attachment #1
IMG_0D3059A4-713B-40FB-A933-60FAAE828974.jpg



Monitoring Technician Log

ID: 2018071238136.0

Title:	ST13-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:44 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

10:35 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

2 Excavation Location(s)

Location: ST13-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779775@-104.964407

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_862D551A-181C-4ED5-A4BE-EA855D423723.jpg	7/12/2018 10:38:10 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB - ST13-7 0' - 0.5'
	Location ST13-7-5
	Time 10:38 am
	Date 07/12/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST13-7 0.5' - 1'
	Location ST13-7-5
	Time 10:38 am
	Date 07/12/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST13-7 1' - 5'
	Location ST13-7-5
	Time 10:38 am

Date 07/12/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Megan Shirley - 08/09/2018 4:44 PM

Appendix: Attachments

Attachment #1
IMG_862D551A-181C-4ED5-A4BE-EA855D423723.jpg



Monitoring Technician Log

ID: 2018071241502.0

Title:	ST15-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	12 Jul 2018
Reporter:	Alex Becker	**Status:**	Complete 8/9/2018 4:44 PM (Central Time)

1 General Information

1 Date

07/12/2018

2 Time

11:31 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

2 Excavation Location(s)

Location: ST15-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779782@-104.963693

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7B5E9CFF-8A61-451A-B9FB-C3D092C84759.jpg	7/12/2018 11:32:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	5' intervals
	Sample ID CSB - ST15-3-0' - 0.5'
	Location ST15-3-5
	Date 07/12/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB -ST15-3- 0.5' - 1'
	Location ST15-3-5
	Date 07/12/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
	Sample ID CSB - ST15-3-1' - 5'
	Location ST15-3-5
	Time 11:40 AM
	Date 07/12/2018
	Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.

Submit Initiated By: Megan Shirley - 08/09/2018 4:44 PM

Appendix: Attachments

Attachment #1
IMG_7B5E9CFF-8A61-451A-B9FB-C3D092C84759.jpg



6/27/18

1042 ML-22-8 gradation borings
native @ 6'
39.7806, -104.9623

1510 off site

6/28/18

0650 on site AD, H+S meeting

ST 96-3-5 Note: ST 99-2 & ST 97-2

1009 ST 87-4-2 TD = 1' 0.9 ✓
native Fill @ 1'

ST 96-3-5 TD = 2 11.6 ✓

1035 native Fille 5'

1045 ST 96-2-0 TD = 7' 9.6 ✓
native Fill @ 7'

1055 ST-99-4-5 TD = 7 9.9 ✓
native Fille 7'

1112 ST 94-2-5 TD = 5' 13.5 ✓
native Fille 5'

1134 ST 93-3-5 TD = 7' 14.7 ✓
native Fille 7'

1149 ST 93-1-5 TD = 5' 15.0 ✓
native Fill @ 5'

1246 ST 90-3-5 redo for 5'-7', altered
Fille 7'

1250 ST 99-2-2 TD = 3' 12.7 ✓
native Fill @ 3' Note replaced ST 99-2 due to access

6/28/18

1425 ML 20-1 gradation boring
native @ 6'
39.78054, -104.9631

1530 off site

6/29/18 Gradation Borings only:

0700 AD on site, H+S meeting
ML-22-3, Gradation Borings

0777 native @ 6'
39.7806, -104.9623

0817 ML-24-5
39.7804, -104.9620 [offsite: to Subcontractor meeting]
native @ ~~7'~~ 5'

1134 ML-24-3
39.7801, -104.9620
native @ 2'

1315 ML 18-8
39.7805, -104.9634
native @ ~~4'~~ 5'

1400 off site

7/2/18

0645 on site, H+S meeting

0751 ML 27-5
39.7806, -104.9605
native @ ~~8'~~

Rite in the Rain

7/2/18

1510 ~~ML 27-8~~ ML 27-8
39.7807, -104.9610
native @ native @ 5'

1049 ML 28-1
39.7804, -104.9614
native @ 5'

1530 OH 5.7k

7/3/18

0700 AB on site, H+S meeting
, ML 35-1

0815 39.7806, -104.9590
native @ 3'

0856 ML-35-8
39.7804, -104.9587
native @ 4'
, ML-35-6

0911 39.7804, -104.9589
native @ 5'
~~native~~

1012 ML 5738-63
39.7803, -104.9579
native @ 2'

1024 ML 35-6
39.7803, -104.9579
native @ 5

7/3/18

1044 ML 40-3
39.7802, -104.9576
native @ 6'

1223 ML 38-9
39.7803, -104.9577
native @ 6'

1251 ML36-6
39.7803, -104.9585
native 3'

1500 OH 5.7k

7/5/18

~~0700~~ on site, H+S meeting

0749 ML 27-8
39.7807, -104.9610

0830 native @ 5'
ML 42-3 bucket
39.7802, -104.9569
native @ 3'

1116 ML 50-3
39.7803, -104.9543

1131 native @ 4'
ML 50-5
39.7804, -104.9541
native @ 4'

Rite in the Rain

7/5/18

		PID (ppm)
1156	- ML-52-8	
	39.7805, -104.9536	
	native @ 4'	
1331	ML-43-9-5	11.3
	native @ 3'	
1352	ML-43-3	8.2
	native 10'	
1415	ML-43-5	5.5
	native - 7'	
1510	off site	

7/9/18

0700	A+S on site, H+S meeting	
0800	ML 42-2-5	2.2
	native @ 4'	
0828	ML 42-6-5	4.2
	native 4'	
0910	ML 42-8-5	9.6
	native 8'	
0951	ML 43-7-5	6.4
	native 4'	
1004	ML 43-1-5 TD 24'	14.9
	native refusal 15'	
1054	ML 42-4-5	8.0
	native 4'	

7/9/18

		PID (ppm)
1210	ST 18-4-2	9.5
	native 4'	
1340	ML 27-1-5	8.6
	native 5'	
1452	ML 25-6-5	4.9
	native ~~8~~ 5'	
1520	ML 27-2-5	11.8
	native @ 5' + GPS	
1552	ML ~~24-9-5~~ ML 23-7-5	6.0
	native @ 4'	
	39.7803, -104.~~9616~~ 9511	
~~1607~~ 1607	ML 26-1-5	~~4.C~~ 3.0
1628	native @ 4'	
	39.7803, -104.9618	
~~1647~~	~~ML-27-7-5~~	4.6
	~~native 5~~	
	~~39.7802, -104.9511~~	
1632	ML-24-9-5	2.3
	native @ 4'	
	39.7803 -104.9616	
1645	off site	

7/10/18

0700	H+S meeting
	Note: run reds

Rite in the Rain

7/10/18

		PID (ppm)
0814	ML 27-7-5 native 4'	2.0
0843	ML 27-4-5 native 4'	2.5
0852	ML 27-5-5 native 5' ~~ML 27-2-5~~	2.6
1054	ML 26-2-5 native Fill @ 17' TD = 17'	4.6
1130	ML 25-4-5 native 4'	4.5
1136	ML 25-3-5 native 4'	2.0
1157	ML 25-8-5 native 4'	4.2
1208	ML 25-7-5 native 4'	2.7
1217	ML 27-3-5 native 3'	12.7
1227	ML 27-2-5 native 4'	3.7
1518	ST 21-3-2 native 4'	2.8
1540	ST 21-1 Hand auger	
1600	off site	

7/11/18

PID (ppm)

0700	AB & JE on site H&S meeting, Geotechnical:	
0805	ML 42-3-5 Top of sand 11' TD 24.5' approx probe depth 20' GPS: 39.7805, -104.9569 native @ 5' sand w/gravel @ 13' - 16.5' clay @ 16.5 - 25' Collect sand w/gravel in 5gal	
1640	off site	

7/12/18

0700	AB & JE on site, H&S meeting.	
0740	ML 27-9-5 native 2' 9 PPM	~~5.1~~
0802	ML 24-5-5 native 5	5.5
0815	ML 24-1-5 native 3'	4.0
0835	ML 24-7-5 native @ 6'	3.3

Rite in the Rain

7/12/18

		PID (ppm)
0845	ML 24-3-5	0.5
	native 6'	
0910	ML 17-1-5	6.5
	native 5'	
0925	ST 13-5-5	2.5
	native 4'	
0934	ST 13-7-5	10.0
	native 4'	
1007	ST 15-7-5	5.7
	native 4'	
1015	ST 15-8-5	5.2
	native 8'	
1033	ST 15-3-5	6.4
	native 4'	
1305	ST 33-2-2	9.7
	native 3'	
1315	ST 42-2-2	6.6
	native 3'	
1330	on site to M+S meeting	

7/13/18 Geotechnical:

0840 on site AB, M+S meeting at Vine St.
1020 ML 24-3-5
TD 25' TOS 10' S/G 15'-20'
39.7804, -104.9620

7/13/18

1330 ML 20-5
TD 20' TOS 8' S/G 8-20
39.7805, -104.9631
1504 ML 27-8
39.7806, -104.9609
TD 25' TOS 6' S/G 10'-25'
1515 on site

Rite in the Rain

CONTENTS

PAGE	REFERENCE	DATE

Location I-10 + Brighton Blvd Date 7/23/18

Project / Client

PID (ppm)

0700	AB on site, H+S meeting		
0756	ST-11-3-2		4.9
	Fille 5'		
0900	ML6-7-3		4.0
	Fill @ 5'		
0912	ML 6-8-5		4.9
	Fill @ 5'		
0970	ML 6-9-3		3.5
	Fill @ 6'		
1045	ML 23-2-5	TD=12'	0.8
	refusal @ 2.5		
1100	ML 23-5-3		0.2
	refusal @ 2.5		
1116	ML 23-8-3		0.8
	refusal @ 2.5		
1134	ST 31-4-2	@ Clayton St	2.6
	native @ 2'		
1151	ST 31-2-2		2.8
	native @ 2'		
1246	STAL 72-3-2		1.6
	native @ 3'		
1430	ES 213-20		4.5
	native 5'		
1455	ES 213-20		1.8
	native 5'		

Rite in the Rain

Location _____ Date _____

Project / Client _____

Location E 105 2-295 Date 7/23/18

Project / Client Central 70 / Growth

		PZ Depth
1500	ES-215-20 native @ 5	1.8
1515	ES-217-20 native @ 5	2.3
1520	ES-219-20 native @ 5	2.3
	~~ES-205-20~~ native	
1545	off site	

7/25/18

0705	AB onsite, H&S meeting	
0740	ES 205-20 native 3'	1.0
0756	ES 207-20 native 3'	2.5
	ES 209-20	
0820	native 5'	
0905	~~ES~~ EN 206-H20 native 3'	1.2
0916	~~ES~~ EN 208-H20 native 5'	2.3
1143	EB4-2 native 2'	2.2

Rite in the Rain

Location Colorado Date 7/25/18

Project / Client Central 70/Kiewit

		PID (ppm)
1158	ES 6-2	2.9
	native 2'	
1208	ES 8-2	3.5
	native 4'	
1218	ES 10-2	4.7
	native 2'	
0226	ES 12-2	3.7
	native 3'	
1353	ES 98-3	7.8
	native 3'	
1407	ES 100-3	5.7
	native 3'	
1416	ES 102-3	5.2
	native 2'	
1424	ES 104-3	3.2
	native 2'	
	ES 106-3	3.8
1434	native 2'	
1445	off site	

Location Holly Date 7/26/18

Project / Client Central 70/Kiewit

		PID (ppm)
0700	AB on site, H+S meeting	
0730	ES 108-3	0.7
	native 2'	
0806	ES 110-3	2.3
	native 2'	
0812	ES 112-3	1.5
	native 2'	
0822	ES 114-3	1.9
	native 2	
	ES 116-3	2.4
0833	native 2	
0845	ES 118-3	2.2
	native 2'	
0902	ES 120-3	3.0
	native 2'	
0907	ES 122-3	3.9
	native 5'	
0927	ES 124-3	4.0
	native 5'	
0935	ES 126-3	4.4
	native 2'	
0945	ES 128-3	3.9
	native 2'	

Rite in the Rain

Location Holly Date 7/26/18

Project / Client Central 70 / Kiewit

			PID (ppm)
1006	ES 130-3		4.2
	native 2'		
1118	ML 23-4-5	TD 27'	0.4
	native 8'		
1136	ML 23-1-5	TD = 26'	6.1
	native 19'		
1231	ML 23-7-5		
	hand augur to 1'		
	39.7804, -104.9620		
1240	dH site		
7/30/18			
0745	on site, H+S meeting		
1052	EN 154-1		3.6
	native Fill @ 5'		
1356	EN 152-1		
	hand auger		3.8
1413	Fille 1'		
	EN 150-1		3.9
	hand augr Fille 1'		
1432	EN 140-1		7.0
	hand augr Fille 1'		
1445	dH site		

Location Monaco Date 7/31/18

Project / Client Central 70 / Kiewit

		PID (ppm)
0750	on site, H+S meeting	
0930	potholing	
1530	off site	
	Note: potholed EN 146, ~~46~~ EN 141, EN 124, EN 122, EN 120, EN 118, EN 116, EN 114, EN 112, EN 110, EN 108	
8/1/18		
0750	on site, H+S meeting	
0950	EN 141-2	1.9
	Fill @ 5'	
1026	EN 124-2	4.1
	Fill @ 5	
1044	EN 122-2	5.0
	Fille 5	
1100	EN 120-2	7.4
	Fill @ 5	
1126	EN 118-2	9.2
	Fille 5	
1146	EN 116-2	8.5
	Fill @ 5	
1200	EN 114-2 5	5.7
	Fill @ 5	
1220	EN 108-3	7.1
	Fill @ 5	
1300	dH site	

Monitoring Technician Log

ID: 2018080351319.0

Title:	EN106-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	3 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/03/2018

2 Time

02:15 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN106-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778658@-104.923274

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5915CF5F-85CB-4CD6-B0B1-FDE7056AB2F3.jpg	8/3/2018 2:16:08 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Native at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN106-3 0’-3’
		Location EN106-3
		Time 02:21 pm
		Date 08/03/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_5915CF5F-85CB-4CD6-B0B1-FDE7056AB2F3.jpg



Monitoring Technician Log

ID: 2018081439606.0

Title:	EN106-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

11:00 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN105-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778694@-104.923298

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A2802FDE-8B7D-4B61-A49C-F9BBAB75E8D6.jpg	8/14/2018 11:01:36 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Comments: Not as labeled 106

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN105-3 0’-3’
		Location EN105-3
		Time 11:04 AM
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_A2802FDE-8B7D-4B61-A49C-F9BBAB75E8D6.jpg



Monitoring Technician Log

ID: 2018080148096.0

Title:	EN108-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

01:21 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN108-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778622@-104.922933

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_83BF2A08-DE87-4150-B646-9B4B602AEEB9.jpg	8/1/2018 1:26:10 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN108-3 0’-3’
		Location EN108-3
		Time 01:26 pm
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_83BF2A08-DE87-4150-B646-9B4B602AEEB9.jpg



Monitoring Technician Log

ID: 2018081438782.0

Title:	EN108-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

10:46 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN107-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778604@-104.923011

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9F6A2F95-01B5-485F-95BE-5A7FA293FD16.jpg	8/14/2018 10:47:52 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Comments: Labeled 108

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN107-3 0’-3’
		Location EN107-3
		Time 10:51 am
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_9F6A2F95-01B5-485F-95BE-5A7FA293FD16.jpg



Monitoring Technician Log

ID: 2018081437840.0

Title:	EN110-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

10:30 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN110-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778569@-104.922584

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DA900603-42F5-44A8-8E80-B442B33FB514.jpg	8/14/2018 10:31:47 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN110-3 0’-3’
		Location EN110-3
		Time 10:35 am
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_DA900603-42F5-44A8-8E80-B442B33FB514.jpg



Monitoring Technician Log

ID: 2018080147034.0

Title:	EN114-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

01:03 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN114-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778486@-104.922008

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_31201439-A59F-4AD7-8142-A64E67B1E2EC.jpg	8/1/2018 1:05:12 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN114-3 0’-3’
		Location EN114-3
		Time 01:06 pm
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_31201439-A59F-4AD7-8142-A64E67B1E2EC.jpg



Monitoring Technician Log

ID: 2018080144931.0

Title:	EN118-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:34 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

12:28 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN118-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778461@-104.921426

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7CFEE68C-2C4B-47FA-BBC2-B627C80C4407.jpg	8/1/2018 12:29:54 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN118-2 0’-2’
		Location EN118-2
		Time 12:31 pm
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_7CFEE68C-2C4B-47FA-BBC2-B627C80C4407.jpg



Monitoring Technician Log

ID: 2018080351896.0

Title:	EN104-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	3 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:32 PM (Central Time)

1 General Information

1 Date

08/03/2018

2 Time

02:24 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN104-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778703@-104.923448

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_02D2266B-C686-4630-8BA4-65A5CFB21812.jpg	8/3/2018 2:25:37 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN104-3 0’-3’
		Location EN104-3
		Time 02:27 pm
		Date 08/03/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_02D2266B-C686-4630-8BA4-65A5CFB21812.jpg



Monitoring Technician Log

ID: 2018082937493.0

Title:	EN112-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:06 PM (Central Time)

1 General Information

1 Date

08/29/2018

2 Time

10:24 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN112-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778706@-104.922502

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5D085399-02FD-4C31-A41A-B3F5EA5584FD.jpg	8/29/2018 10:25:36 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN112-3 0’-3’
		Location EN112-3
		Time 10:41 am
		Date 08/29/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_5D085399-02FD-4C31-A41A-B3F5EA5584FD.jpg



Monitoring Technician Log

ID: 2018080146234.0

Title:	EN116-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:34 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

12:50 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN116-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778484@-104.921801

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6343EE0A-2CF4-42D8-B6E1-C3BBB4CAA2CB.jpg	8/1/2018 12:51:28 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN116-2 0’-2’
		Location EN116-2
		Time 12:52 pm
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_6343EE0A-2CF4-42D8-B6E1-C3BBB4CAA2CB.jpg



Monitoring Technician Log

ID: 2018080143394.0

Title:	EN120-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

12:03 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN120-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778484@-104.920884

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9F103054-6318-41A5-B012-0912AAB5C980.jpg	8/1/2018 12:04:21 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN120-2 0’-2’
		Location EN120-2
		Time 12:04 pm
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_9F103054-6318-41A5-B012-0912AAB5C980.jpg



Monitoring Technician Log

ID: 2018082351782.0

Title:	ES94-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/27/2018 6:14 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

02:23 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES94-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778210@-104.921322

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_83FF2D96-C33A-45A0-9D36-2E264125B893.jpg	8/23/2018 2:26:07 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)
	Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-ES94-3 0’-3’
	Location ES94-3
	Time 02:24 PM
	Date 08/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 08/27/2018 6:14 PM

Appendix: Attachments

Attachment #1
IMG_83FF2D96-C33A-45A0-9D36-2E264125B893.jpg



Monitoring Technician Log

ID: 2018082344954.0

Title:	ES75-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/27/2018 6:13 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

12:29 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES75-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778435@-104.923455

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6150FE50-C78E-469B-85AD-381AF0F71FDA.jpg	8/23/2018 12:29:51 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)
	Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-ES75-3 0’-3’
	Location ES75-3
	Time 12:37 PM
	Date 08/23/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 08/27/2018 6:13 PM

Appendix: Attachments

Attachment #1
IMG_6150FE50-C78E-469B-85AD-381AF0F71FDA.jpg



Monitoring Technician Log

ID: 2018082345628.0

Title:	ES77-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/27/2018 6:14 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

12:40 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES77-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778379@-104.923179

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7F1F4BE2-BD15-4F23-8F59-42950F2731F5.jpg	8/23/2018 12:41:05 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-ES77-3 0’-3’
		Location ES77-3
		Time 12:49 PM
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Emily Koenigs - 08/27/2018 6:14 PM

Appendix: Attachments

Attachment #1
IMG_7F1F4BE2-BD15-4F23-8F59-42950F2731F5.jpg



Monitoring Technician Log

ID: 2018081038705.0

Title:	ES2-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:56 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

10:45 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES2-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779717@-104.938685

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F4DCB35E-A9E1-4902-B724-2BA3E82180F3.jpg	8/10/2018 10:46:05 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7

7 Additional Screening Comments/Observations:

PID calibrated

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

Add another

Sample ID ES2-2 0’-2’

Location ES2-2

Time 10:48 am

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:56 PM

Appendix: Attachments

Attachment #1
IMG_F4DCB35E-A9E1-4902-B724-2BA3E82180F3.jpg



Monitoring Technician Log

ID: 2018081040311.0

Title:	ES186-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:48 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

11:11 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: ES186-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778033@-104.897736

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F5FAE862-D01B-4321-AFA4-AA1D7930927A.jpg	8/10/2018 11:22:23 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-ES186- 0’-2’
	Location ES186-2
	Time 11:23 AM
	Date 08/10/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 08/14/2018 5:48 PM

Appendix: Attachments

Attachment #1
IMG_F5FAE862-D01B-4321-AFA4-AA1D7930927A.jpg



Monitoring Technician Log

ID: 2018080651452.0

Title:	EN94-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:42 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

02:17 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Grape

2 Excavation Location(s)

Location: EN94-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779061@-104.924981

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E4FB74BD-C5C7-4995-9F4A-79D323160769.jpg	8/6/2018 2:18:25 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN94-3 0'-3'
		Location EN94-3
		Time 02:19 PM
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Emily Koenigs - 08/14/2018 5:42 PM

Appendix: Attachments

Attachment #1
IMG_E4FB74BD-C5C7-4995-9F4A-79D323160769.jpg



Monitoring Technician Log

ID: 2018080654337.0

Title:	EN88-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:43 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

03:05 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Glencoe

2 Excavation Location(s)

Location: EN90-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779266@-104.925751

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0D719BA4-E9DA-4714-8984-8F629749DDC8.jpg	8/6/2018 3:06:45 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN90- 0'-3'
		Location EN90-3
		Time 03:07 PM
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories.
		Submit Initiated By: Emily Koenigs - 08/14/2018 5:43 PM

Appendix: Attachments

Attachment #1
IMG_0D719BA4-E9DA-4714-8984-8F629749DDC8.jpg



Monitoring Technician Log

ID: 2018080663168.0

Title:	EN74-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:40 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

05:32 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN74-2

3 GPS or Survey Location of RHM Origination

39.7799, -104.9290

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-EN74-2 0’-2’
	Location EN74-2
	Time 05:34 PM
	Date 08/06/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 08/14/2018 5:40 PM

Monitoring Technician Log

ID: 2018080657773.0

Title:	EN76-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:41 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

04:02 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN76-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779814@-104.928799

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_38D59315-7E45-4A95-B03B-398AC2EECCF5.jpg	8/6/2018 4:03:36 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-EN76-2 0-2’
	Location EN76-2
	Time 04:04 PM
	Date 08/06/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 08/14/2018 5:41 PM

Appendix: Attachments

Attachment #1
IMG_38D59315-7E45-4A95-B03B-398AC2EECCF5.jpg



Monitoring Technician Log

ID: 2018080656276.0

Title:	EN80-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:45 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

03:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN80-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779721@-104.928122

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0747758E-0F42-4781-82BA-77FFC0A1EDB5.jpg	8/6/2018 3:39:08 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN80-2 0'-2'
		Location EN80-2
		Time 03:39 PM
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Emily Koenigs - 08/14/2018 5:45 PM

Appendix: Attachments

Attachment #1
IMG_0747758E-0F42-4781-82BA-77FFC0A1EDB5.jpg



Monitoring Technician Log

ID: 2018080655489.0

Title:	EN82-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:38 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

03:24 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Forest

2 Excavation Location(s)

Location: EN82-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779654@-104.927721

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_104EB5CC-6FB2-434E-93F4-2078EA479A5E.jpg	8/6/2018 3:25:57 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID CSB-EN82- 0'-2'
		Location CSB-EN82-2
		Time 03:26 PM
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
		Submit Initiated By: Emily Koenigs - 08/14/2018 5:38 PM

Appendix: Attachments

Attachment #1
IMG_104EB5CC-6FB2-434E-93F4-2078EA479A5E.jpg



Monitoring Technician Log

ID: 2018080663351.0

Title:	EN72-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:39 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

05:35 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN72-2

3 GPS or Survey Location of RHM Origination

39.7799,-104.9294

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID CSB-EN72-0'-2'
	Location EN72-2
	Time 05:37 PM
	Date 08/06/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 08/14/2018 5:39 PM

Monitoring Technician Log

ID: 2018081046589.0

Title:	ST-08-9-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:57 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

12:56 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST-108-9-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779459@-104.966503

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BBF2459B-3BD5-4342-A23C-832B928A98DD.jpg	8/10/2018 12:57:14 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST-108-9-5 0' - 0.5'
		Location ST-108-9-5
		Time 01:08 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST-108-9-5 0.5' - 1'
		Location ST-108-9-5
		Time 01:08 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST-108-9-5- 1' - 5'
		Location ST-108-9-5

Time 01:08 pm

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:57 PM

Appendix: Attachments

Attachment #1
IMG_BBF2459B-3BD5-4342-A23C-832B928A98DD.jpg



Monitoring Technician Log

ID: 2018081047398.0

Title:	ST109-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:47 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

01:09 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST-109-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779538@-104.966272

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0F6DA54D-9D80-4CA0-8080-D7F7D0D73379.jpg	8/10/2018 1:11:04 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST-109-1-0' - 0.5'
		Location ST-109-1-5
		Time 01:31 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST-109-1-0.5' - 1'
		Location ST-109-1-5
		Time 01:31 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST-109-1-1' - 5'
		Location ST-109-1-5

Time 01:32 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Time 01:22 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 5:47 PM

Appendix: Attachments

Attachment #1
IMG_0F6DA54D-9D80-4CA0-8080-D7F7D0D73379.jpg



Monitoring Technician Log

ID: 2018081051971.0

Title:	ST110-1-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 6:03 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

02:26 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST110-1-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779744@-104.964991

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C67A0298-097A-4F0B-B7EC-C76F6BAA7B83.jpg	8/10/2018 2:33:20 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST110-1- 0' - 0.5'
		Location ST110-1-5
		Time 02:34 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST110-1- 0.5' - 1'
		Location ST110-1-5
		Time 02:34 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST110-1-5- 1' - 5'
		Location ST110-1-5

Time 02:34 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 6:03 PM

Appendix: Attachments

Attachment #1
IMG_C67A0298-097A-4F0B-B7EC-C76F6BAA7B83.jpg



Monitoring Technician Log

ID: 2018081052781.0

Title:	ST110-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 5:49 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

02:39 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST110-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779617@-104.964986

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2D777AB6-525C-489A-8EE9-47101F455CB2.jpg	8/10/2018 2:41:00 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST110-3- 0' - 0.5'
		Location ST110-3-5
		Time 02:51 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST110-3-0.5' - 1'
		Location ST110-3-5
		Time 02:51 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST110-3- 1' - 5'
		Location ST110-3-5

Time 02:51 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 5:49 PM

Appendix: Attachments

Attachment #1
IMG_2D777AB6-525C-489A-8EE9-47101F455CB2.jpg



Monitoring Technician Log

ID: 2018081043931.0

Title:	ST108-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:53 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

12:12 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST108-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779379@-104.966867

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FD5E60C6-B89D-4DD4-988D-C1E35F7A6871.jpg	8/10/2018 12:13:42 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST108-3-5 - 0' - 0.5'
		Location ST108-3-5
		Time 12:20 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST108-3-5- 0.5' - 1'
		Location ST108-3-5
		Time 12:20 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST108-3-5 - 1' - 5'
		Location ST108-3-5

Time 12:20 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:52 PM

Appendix: Attachments

Attachment #1
IMG_FD5E60C6-B89D-4DD4-988D-C1E35F7A6871.jpg



Monitoring Technician Log

ID: 2018081044522.0

Title:	ST108-4-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:56 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

12:22 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST108-4-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779179@-104.966903

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_70205AA9-3F35-4BD3-B479-000CE6E39230.jpg	8/10/2018 12:40:39 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at TD 15

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST108-4-5- 0' - 0.5'
		Location ST108-4-5
		Time 12:42 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST108-4-5 0.5' - 1'
		Location ST108-4-5
		Time 12:42 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST108-4-5 1' - 5'
		Location ST108-4-5

Time 12:42 pm

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID CSB ST108-4-5 5'-10'

Location ST108-4-5

Time 12:44 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

Add another

Sample ID ST108-4-5 ST108-4-5 10'-15'

Location ST108-4-5

Time 12:46 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:56 PM

Appendix: Attachments

Attachment #1
IMG_70205AA9-3F35-4BD3-B479-000CE6E39230.jpg



Monitoring Technician Log

ID: 2018081046064.0

Title:	ST108-5-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:55 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

12:47 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST108-5-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779491@-104.966632

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CBBF1FA6-D954-42B8-B1F1-ECC49DD72232.jpg	8/10/2018 12:48:20 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST108-5-5 0' - 0.5'
		Location ST108-5-5
		Time 12:54 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST108-5-5- 0.5' - 1'
		Location ST108-5-5
		Time 12:54 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST108-5-5 1' - 5'
		Location ST108-5-5

Time 12:54 pm

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:55 PM

Appendix: Attachments

Attachment #1
IMG_CBBF1FA6-D954-42B8-B1F1-ECC49DD72232.jpg



Monitoring Technician Log

ID: 2018081043021.0

Title:	ST108-7-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:57 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

11:57 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST108-7-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779562@-104.966468

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_521ACD9B-D82A-4EC6-8703-0C28FE5DB569.jpg	8/10/2018 11:58:00 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST108-7-5- 0' - 0.5'
		Location ST108-7-5
		Time 12:10 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST108-7-5 - 0.5' - 1'
		Location ST108-7-5
		Time 12:10 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST108-7-5 - 1' - 5'
		Location ST108-7-5

Time 12:10 pm

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:57 PM

Appendix: Attachments

Attachment #1
IMG_521ACD9B-D82A-4EC6-8703-0C28FE5DB569.jpg



Monitoring Technician Log

ID: 2018081050599.0

Title:	ST109-6-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 8/14/2018 12:56 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

02:03 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST109-6-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779618@-104.965594

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E2E05048-588A-471A-BB0E-69EFC9C781A1.jpg	8/10/2018 2:06:41 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB ST109-6-5- 0' - 0.5'
		Location ST109-6-5
		Time 02:10 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB ST109-6-5 - 0.5' - 1'
		Location ST109-6-5
		Time 02:10 PM
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST109-6-5 1' - 5'
		Location ST109-6-5

Time 02:10 PM

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Submit Initiated By: Emily Koenigs - 08/14/2018 12:56 PM

Appendix: Attachments

Attachment #1
IMG_E2E05048-588A-471A-BB0E-69EFC9C781A1.jpg



Monitoring Technician Log

ID: 2018081053666.0

Title:	ST109-8-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

02:54 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST109-8-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779527@-104.965222

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DED3C018-6488-4B1F-9A67-8F54A1278F94.jpg	8/10/2018 2:55:20 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB -ST110-3-5 0' - 0.5'
		Location ST110-3-5
		Time 03:11 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB -ST110-3-5 0.5' - 1'
		Location ST110-3-5
		Time 03:11 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST110-3-5 1' - 5'
		Location ST110-3-5

Time 03:11 pm

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_DED3C018-6488-4B1F-9A67-8F54A1278F94.jpg



Monitoring Technician Log

ID: 2018081049851.0

Title:	ST109-3-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	10 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/10/2018

2 Time

01:50 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Brighton

2 Excavation Location(s)

Location: ST109-3-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779489@-104.965990

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BECA7D6B-7F26-4186-9347-2FD2D6DF786A.jpg	8/10/2018 1:51:46 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		5' intervals
		Sample ID CSB - ST109-3-5 0' - 0.5'
		Location ST109-3-5
		Time 01:53 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST109-3-5 0.5' - 1'
		Location ST109-3-5
		Time 01:53 pm
		Date 08/10/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
		Sample ID CSB - ST109-3-5 1' - 5'
		Location ST109-3-5

Time 01:53 pm

Date 08/10/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_BECA7D6B-7F26-4186-9347-2FD2D6DF786A.jpg



Monitoring Technician Log

ID: 2018082347286.0

Title:	ES81-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:12 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

01:08 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES81-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778359@-104.922719

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_23E0756A-0CCF-40B9-B4AC-DFD9B2C79E3E.jpg	8/23/2018 1:08:54 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES81-3 0’-3’
		Location ES81-3
		Time 01:18 PM
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_23E0756A-0CCF-40B9-B4AC-DFD9B2C79E3E.jpg



Monitoring Technician Log

ID: 2018082347975.0

Title:	ES83-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:14 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

01:19 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

Comments: Windy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES83-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778346@-104.922588

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9DE499DE-97C6-4409-98E1-7865544057DC.jpg	8/23/2018 1:31:24 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

Add another

Sample ID ES83-3 0’-3’

Location ES83-3

Time 01:38 pm

Date 08/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_9DE499DE-97C6-4409-98E1-7865544057DC.jpg



Monitoring Technician Log

ID: 2018082349206.0

Title:	ES85-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:14 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

01:40 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES90-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778238@-104.921888

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_036EE835-1EF6-4706-82FA-3CD899B5B187.jpg	8/23/2018 1:47:15 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Mis marked ES85-3

5	Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.7

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

Add another

Sample ID ES90-3 0’-5’

Location ES90-3

Time 01:40 pm

Date 08/23/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_036EE835-1EF6-4706-82FA-3CD899B5B187.jpg



Monitoring Technician Log

ID: 2018082932033.0

Title:	ES87-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:04 PM (Central Time)

1 General Information

1 Date

08/29/2018

2 Time

08:53 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES87-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778125@-104.922185

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_153800B6-5880-4FBD-818A-A9EFF149BCB9.jpg	8/29/2018 8:54:41 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES87-3 0’-3’
		Location ES87-3
		Time 09:29 am
		Date 08/29/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_153800B6-5880-4FBD-818A-A9EFF149BCB9.jpg



Monitoring Technician Log

ID: 2018082932842.0

Title:	ES89-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:06 PM (Central Time)

1 General Information

1 Date

08/29/2018

2 Time

09:07 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES89-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778100@-104.921757

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_81AE131F-5535-4DB9-8EF2-552E7F60824A.jpg	8/29/2018 9:08:13 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 3

3	Field Screening/Monitoring	
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES89-3 0’-3’
		Location ES89-3
		Time 09:34 am
		Date 08/29/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_81AE131F-5535-4DB9-8EF2-552E7F60824A.jpg



Monitoring Technician Log

ID: 2018082351013.0

Title:	ES92-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

02:10 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES92-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778212@-104.921682

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BA6AAC5C-7B2D-46DF-AF77-D77774776682.jpg	8/23/2018 2:10:57 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES92-3 0’-3’
		Location ES92-3
		Time 02:20 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_BA6AAC5C-7B2D-46DF-AF77-D77774776682.jpg



Monitoring Technician Log

ID: 2018082352645.0

Title:	ES96-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:13 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

02:37 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES96-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778229@-104.921098

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5475086A-5337-4364-A7F2-5A2102A77CD6.jpg	8/23/2018 2:48:24 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES96-3 0’-3’
		Location ES96-3
		Time 02:38 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_5475086A-5337-4364-A7F2-5A2102A77CD6.jpg



Monitoring Technician Log

ID: 2018080741430.0

Title:	ES49-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

11:30 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES49-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779080@-104.927178

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8EE096CF-CEAF-4F7F-A534-F12126792FC3.jpg	8/7/2018 11:39:58 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES49-2 0’-2’
		Location ES49-2
		Time 11:40 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_8EE096CF-CEAF-4F7F-A534-F12126792FC3.jpg



Monitoring Technician Log

ID: 2018080742697.0

Title:	ES53-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:31 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

11:51 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES53-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778910@-104.926320

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EA100AD9-9738-4B4C-A9B7-1E8A5DB99D46.jpg	8/7/2018 11:53:50 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill At5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES53-2 0’-2’
		Location ES53-2
		Time 12:01 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_EA100AD9-9738-4B4C-A9B7-1E8A5DB99D46.jpg



Monitoring Technician Log

ID: 2018080744491.0

Title:	ES55-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:28 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

12:21 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES55-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778784@-104.925767

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E085E3D9-F4EA-4644-B410-926C5BD60D22.jpg	8/7/2018 12:23:03 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES55-2 0’-2’
		Location ES55-2
		Time 12:23 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_E085E3D9-F4EA-4644-B410-926C5BD60D22.jpg



Monitoring Technician Log

ID: 2018080744681.0

Title:	ES57-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:27 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

12:24 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES57-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778736@-104.925482

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3F59CC26-3406-43C5-83AB-ECA1278A877F.jpg	8/7/2018 12:31:45 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES57-2 0’-2’
		Location ES57-2
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_3F59CC26-3406-43C5-83AB-ECA1278A877F.jpg



Monitoring Technician Log

ID: 2018080745514.0

Title:	ES59-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:28 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

12:38 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES59-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778693@-104.925247

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0E06E2E9-31F0-4809-AE09-4281F4462B24.jpg	8/7/2018 12:40:08 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES59-3 0’-3’
		Location ES59-3
		Time 12:40 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_0E06E2E9-31F0-4809-AE09-4281F4462B24.jpg



Monitoring Technician Log

ID: 2018080746270.0

Title:	ES61-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

12:51 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES61-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778638@-104.925020

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D670DCCA-D6EC-4801-8303-19283381B602.jpg	8/7/2018 12:52:27 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES61-2 0’-3’
		Location ES61-2
		Time 12:53 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D670DCCA-D6EC-4801-8303-19283381B602.jpg



Monitoring Technician Log

ID: 2018080748685.0

Title:	ES67-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

01:31 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES67-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778460@-104.924272

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_60DAC747-AF3D-473D-873B-EF3ABEABC5CE.jpg	8/7/2018 1:33:25 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES67-2 0’-2’
		Location ES67-2
		Time 01:35 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_60DAC747-AF3D-473D-873B-EF3ABEABC5CE.jpg



Monitoring Technician Log

ID: 2018080749376.0

Title:	ES69-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:28 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

01:42 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES69-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778454@-104.924132

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_241529E4-5A46-4A62-B334-5D5985B01434.jpg	8/7/2018 1:43:56 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES69-2 0’-2’
		Location ES69-2
		Time 01:44 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_241529E4-5A46-4A62-B334-5D5985B01434.jpg



Monitoring Technician Log

ID: 2018080749904.0

Title:	ES71-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

01:51 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES71-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778402@-104.923940

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D5A7F22C-FB30-4682-A129-300D19803368.jpg	8/7/2018 1:52:53 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES71-2 0'—2'
		Location ES71-2
		Time 01:53 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D5A7F22C-FB30-4682-A129-300D19803368.jpg



Monitoring Technician Log

ID: 2018082346364.0

Title:	ES79-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:14 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

12:52 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES79-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778350@-104.923031

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_51AC8284-5C14-4C77-A01D-878EA86DD552.jpg	8/23/2018 12:53:27 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES79-3 0’-3’
		Location ES79-3
		Time 01:01 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_51AC8284-5C14-4C77-A01D-878EA86DD552.jpg



Monitoring Technician Log

ID: 2018080740994.0

Title:	ES47-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:28 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

11:23 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES47-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779181@-104.927565

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8254ABDD-7020-4EBF-B3CC-6DA3FF23465F.jpg	8/7/2018 11:24:14 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES47-2 0’-2’
		Location ES47-2
		Time 11:25 AM
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_8254ABDD-7020-4EBF-B3CC-6DA3FF23465F.jpg



Monitoring Technician Log

ID: 2018080742157.0

Title:	ES51-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:26 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

11:42 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES51-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778987@-104.926738

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0AD984EF-53AF-4364-B0C1-CEEDC2864413.jpg	8/7/2018 11:43:28 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES51-2 0’-2’
		Location ES51-2
		Time 11:49 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_0AD984EF-53AF-4364-B0C1-CEEDC2864413.jpg



Monitoring Technician Log

ID: 2018080747273.0

Title:	ES63-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:27 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

01:07 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES63-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778582@-104.924842

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D51F5CBB-DC6E-45D6-8D2A-0D5EB8BBCCFF.jpg	8/7/2018 1:08:44 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES63-3 0’-3’
		Location ES63-3
		Time 01:09 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D51F5CBB-DC6E-45D6-8D2A-0D5EB8BBCCFF.jpg



Monitoring Technician Log

ID: 2018080748097.0

Title:	ES65-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

01:21 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES65-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778536@-104.924627

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_AD1EF012-7620-46F4-BF57-E2324DD6D10D.jpg	8/7/2018 1:22:33 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8,9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES65-2 0’-2’
		Location ES65-2
		Time 01:23 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_AD1EF012-7620-46F4-BF57-E2324DD6D10D.jpg



Monitoring Technician Log

ID: 2018082343670.0

Title:	ES73-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:11 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

12:07 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: ES73-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778447@-104.923667

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F096F987-9ED9-4061-B6B0-B20C656313C9.jpg	8/23/2018 12:08:51 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.5
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES73-3 0’-3’
		Location ES73-3
		Time 12:09 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_F096F987-9ED9-4061-B6B0-B20C656313C9.jpg



Monitoring Technician Log

ID: 2018082840118.0

Title:	ES35-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:11 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

11:08 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES35-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779537@-104.930043

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_677A3EF1-2FBA-4B66-BD82-F98F6486179B.jpg	8/28/2018 11:09:20 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES35-2 0’-2’
		Location ES35-2
		Time 11:54 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_677A3EF1-2FBA-4B66-BD82-F98F6486179B.jpg



Monitoring Technician Log

ID: 2018082840463.0

Title:	ES37-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:09 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

11:14 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES37-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779387@-104.929575

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E495CB3D-AA42-4548-B944-B9BE532B27CA.jpg	8/28/2018 11:18:20 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES37-2 0’-2’
		Location ES37-2
		Time 11:59 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_E495CB3D-AA42-4548-B944-B9BE532B27CA.jpg



Monitoring Technician Log

ID: 2018082852484.0

Title:	ES39-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:08 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

02:34 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES39-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779395@-104.929166

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FF939B0F-18D4-418E-81BF-AF1C4A32BB6D.jpg	8/28/2018 2:37:30 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES39-2 0’-2’
		Location ES39-2
		Time 02:56 pm
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_FF939B0F-18D4-418E-81BF-AF1C4A32BB6D.jpg



Monitoring Technician Log

ID: 2018080738776.0

Title:	ES41-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:30 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

10:46 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES41-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779360@-104.928739

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F0E3CC55-4821-4460-B777-9443EF049C54.jpg	8/7/2018 10:47:15 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES41-2 0’-2’
		Location ES41-2
		Time 10:49 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_F0E3CC55-4821-4460-B777-9443EF049C54.jpg



Monitoring Technician Log

ID: 2018080740228.0

Title:	ES45-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:30 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

11:10 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES45-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779247@-104.928048

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B8342DE5-A0A7-484B-8DC3-2F3C77A0FD1F.jpg	8/7/2018 11:11:30 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES45-2 0’-2’
		Location ES45-2
		Time 11:13 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_B8342DE5-A0A7-484B-8DC3-2F3C77A0FD1F.jpg



Monitoring Technician Log

ID: 2018082047133.0

Title:	ES303-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

01:05 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES303-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773195@-104.838277

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1DCE3230-D73B-46B2-8B92-D6459D6DF937.jpg	8/20/2018 1:06:19 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES303-5 0’-5’
		Location ES303-5
		Time 01:10 pm
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_1DCE3230-D73B-46B2-8B92-D6459D6DF937.jpg



Monitoring Technician Log

ID: 2018081635373.0

Title:	ES308-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

09:49 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES308-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.774021@-104.849800

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_36186721-4F7C-4922-A1E5-9E4E5BEB6F8F.jpg	8/16/2018 9:50:41 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.7

7 Additional Screening Comments/Observations:

PID calibrated

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

Add another

Sample ID ES308-5 0’-5’

Location ES308-5

Time 09:59 am

Date 08/16/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_36186721-4F7C-4922-A1E5-9E4E5BEB6F8F.jpg



Monitoring Technician Log

ID: 2018081636302.0

Title:	ES310-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

10:05 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES310-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773829@-104.848232

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A9FEB203-CA69-4CC8-8D4C-500465924D2B.jpg	8/16/2018 10:05:58 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES310-5 0’-5’
		Location ES310-5
		Time 10:16 am
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_A9FEB203-CA69-4CC8-8D4C-500465924D2B.jpg



Monitoring Technician Log

ID: 2018082830390.0

Title:	ES316-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:10 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

08:26 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES16-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779928@-104.933033

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1C644D4F-54FA-4F66-9D8D-0D9E0CB39C27.jpg	8/28/2018 8:29:38 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Mislabeled MS316-2

	5	Depth to Native Material (feet)
		Fill at 2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.1
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES16-2 0’-2’
		Location ES16-2
		Time 09:30 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_1C644D4F-54FA-4F66-9D8D-0D9E0CB39C27.jpg



Monitoring Technician Log

ID: 2018082837219.0

Title:	ES31-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:11 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

10:20 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES31-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779668@-104.930798

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_13A6DA08-8F4F-4727-A9D9-5C81A51B123B.jpg	8/28/2018 10:21:12 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES31-2 0’-2’
		Location ES31-2
		Time 10:47 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_13A6DA08-8F4F-4727-A9D9-5C81A51B123B.jpg



Monitoring Technician Log

ID: 2018082839440.0

Title:	ES33-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:10 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

10:57 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES33-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779602@-104.930395

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3BE81A77-E051-47F4-BDFF-DCF2EC04B0C9.jpg	8/28/2018 10:58:01 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES33-2 0’-2’
		Location ES33-2
		Time 11:49 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_3BE81A77-E051-47F4-BDFF-DCF2EC04B0C9.jpg



Monitoring Technician Log

ID: 2018080739671.0

Title:	ES43-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

11:01 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES43-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779306@-104.928410

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_9221C3E3-7356-4E85-9EFD-3382DB912054.jpg	8/7/2018 11:03:03 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES43-2 0’-2’
		Location ES43-2
		Time 11:08 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_9221C3E3-7356-4E85-9EFD-3382DB912054.jpg



Monitoring Technician Log

ID: 2018082048156.0

Title:	ES305-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

01:22 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES305-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773174@-104.837966

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_84D26E67-E4E7-4389-A798-8D7F055DC107.jpg	8/20/2018 1:23:26 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES305-5 0’-5’
		Location ES305-5
		Time 01:23 pm
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_84D26E67-E4E7-4389-A798-8D7F055DC107.jpg



Monitoring Technician Log

ID: 2018082049778.0

Title:	ES307-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:17 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

01:49 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: ES307-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773099@-104.837371

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_245ABD78-2429-4ADB-B80C-4867E67D7C87.jpg	8/20/2018 1:50:41 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES307-5 0’-5’
		Location ES307-5
		Time 02:03 pm
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_245ABD78-2429-4ADB-B80C-4867E67D7C87.jpg



Monitoring Technician Log

ID: 2018081642480.0

Title:	ES312-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

11:48 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES312-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773659@-104.846548

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_ED9D33E8-E3A7-484F-831C-FF1DFF5AAB35.jpg	8/16/2018 11:48:42 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES312-5 0’-5’
	Location ES312-5
	Time 11:53 am
	Date 08/16/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_ED9D33E8-E3A7-484F-831C-FF1DFF5AAB35.jpg



Monitoring Technician Log

ID: 2018081641635.0

Title:	ES314-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

11:33 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES314-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773630@-104.845489

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FAB02532-AE28-4CD9-94CD-43E56A7FB98B.jpg	8/16/2018 11:35:00 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES314-5 0’-5’
		Location ES314-5
		Time 11:43 am
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_FAB02532-AE28-4CD9-94CD-43E56A7FB98B.jpg



Monitoring Technician Log

ID: 2018082831128.0

Title:	ES318-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:09 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

08:38 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES25-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779903@-104.932597

Mislabeled ES318-2

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_55EBDE47-319C-4F40-A8CD-5E1F8A080053.jpg	8/28/2018 8:39:31 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES25-2 0’-2’
		Location ES25-2
		Time 09:42 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_55EBDE47-319C-4F40-A8CD-5E1F8A080053.jpg



Monitoring Technician Log

ID: 2018082832238.0

Title:	ES27-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:06 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

08:57 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES27-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779888@-104.932106

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F8910AFF-6031-4D8E-AD03-73D67DD41E21.jpg	8/28/2018 8:58:26 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 32.4
	7	Additional Screening Comments/Observations:
		Cleaned PID and screened at 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES27-5 0’-2’
		Location ES27-5
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_F8910AFF-6031-4D8E-AD03-73D67DD41E21.jpg



Monitoring Technician Log

ID: 2018082836698.0

Title:	ES29-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	28 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:08 PM (Central Time)

1 General Information

1 Date

08/28/2018

2 Time

10:11 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES29-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779720@-104.931055

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0D1390BA-0529-428E-9446-D635D46872A4.jpg	8/28/2018 10:12:43 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES29-2 0’-2’
		Location ES29-2
		Time 10:40 am
		Date 08/28/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_0D1390BA-0529-428E-9446-D635D46872A4.jpg



Monitoring Technician Log

ID: 2018082235660.0

Title:	ES237-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/22/2018

2 Time

09:54 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 60

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Central Park

2 Excavation Location(s)

Location: ES237-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777149@-104.883894

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B25D5CB3-642C-4985-9D02-E50EF29EB041.jpg	8/22/2018 9:55:05 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES237-1 0’-1’
		Location ES237-1
		Time 10:03 am
		Date 08/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_B25D5CB3-642C-4985-9D02-E50EF29EB041.jpg



Monitoring Technician Log

ID: 2018082940951.0

Title:	ES239-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:03 PM (Central Time)

1 General Information

1 Date

08/29/2018

2 Time

11:22 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Central Park

2 Excavation Location(s)

Location: ES239-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.776738@-104.882174

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_551A2036-E743-439D-ADC0-203C4836CC67.jpg	8/29/2018 11:23:11 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES239-1 0’-1’
		Location ES239-1
		Time 11:44 am
		Date 08/29/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_551A2036-E743-439D-ADC0-203C4836CC67.jpg



Monitoring Technician Log

ID: 2018082953635.0

Title:	ES281-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:04 PM (Central Time)

1 General Information

1 Date

08/29/2018

2 Time

02:53 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES281-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773344@-104.843051

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_30916AE8-1275-4CED-A9F6-D637DA16D714.jpg	8/29/2018 2:55:24 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger native at 5’

Appendix: Attachments

Attachment #1
IMG_30916AE8-1275-4CED-A9F6-D637DA16D714.jpg



Monitoring Technician Log

ID: 2018082038027.0

Title:	ES285-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

10:33 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES285-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773464@-104.842096

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_FF0D7D37-8BCF-4D37-B854-6B8BB254EB5C.jpg	8/20/2018 10:35:16 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

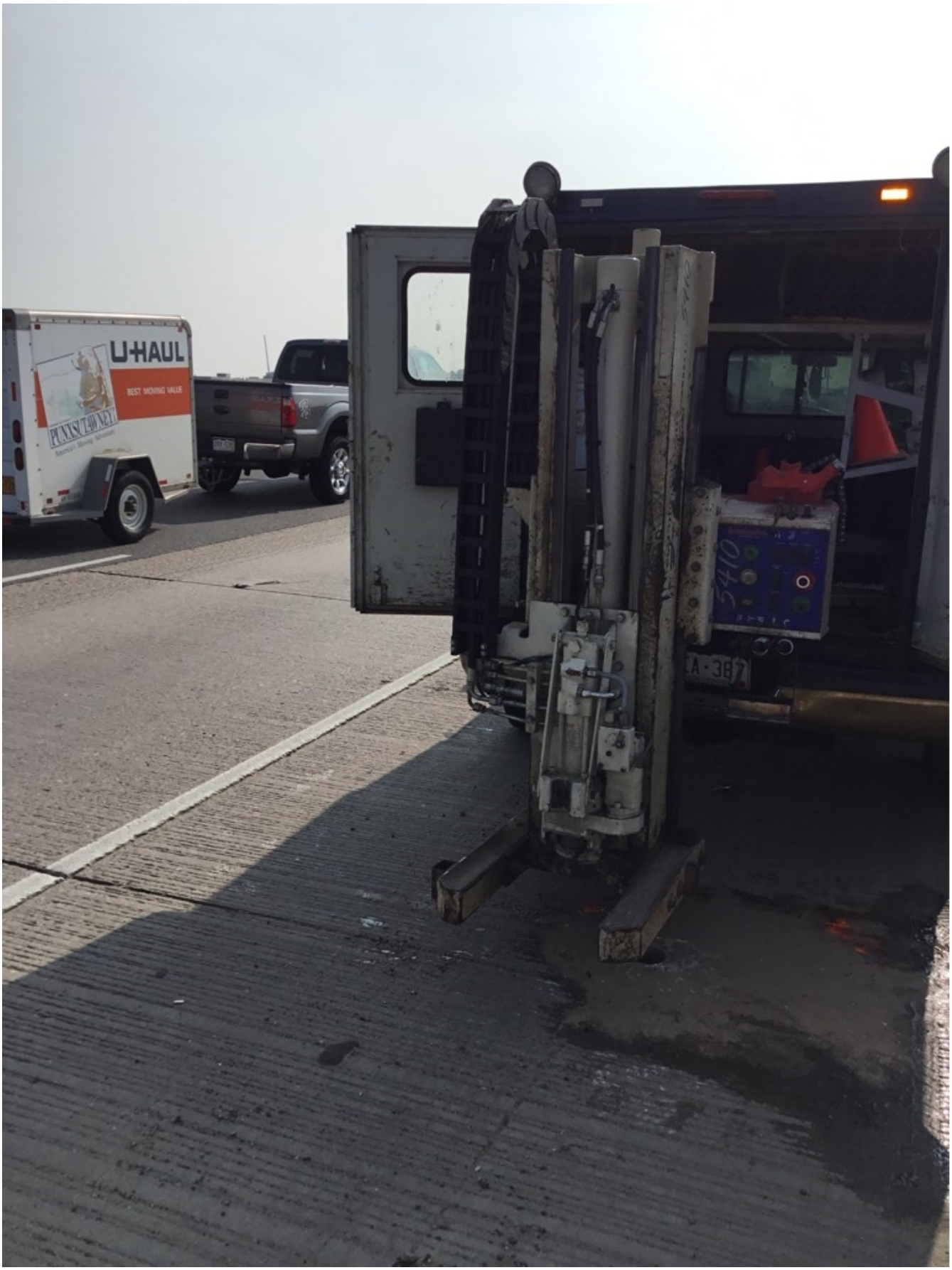
Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.8
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES285-5 0’-5’
		Location ES285-5
		Time 10:38 am
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_FF0D7D37-8BCF-4D37-B854-6B8BB254EB5C.jpg



Monitoring Technician Log

ID: 2018082040519.0

Title:	ES289-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:17 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

11:15 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES289-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773413@-104.841412

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DD63AA2E-5F36-4413-970B-D8069847B7F6.jpg	8/20/2018 11:15:55 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 0.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES289-5 0’-5’
		Location ES289-5
		Time 11:24 AM
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_DD63AA2E-5F36-4413-970B-D8069847B7F6.jpg



Monitoring Technician Log

ID: 2018082041281.0

Title:	ES291-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

11:28 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES291-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773379@-104.840888

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_16758A85-6872-476B-A8F7-D842338466D5.jpg	8/20/2018 11:28:46 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES291-5 0’-5’
		Location ES291-5
		Time 11:36 am
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_16758A85-6872-476B-A8F7-D842338466D5.jpg



Monitoring Technician Log

ID: 2018082044234.0

Title:	ES297-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:17 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

12:17 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES297-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773296@-104.839660

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_00914003-A771-42EA-BA6F-19DC5F0C8AF7.jpg	8/20/2018 12:18:15 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES297-5 0’-5’
		Location ES297-5
		Time 12:18 pm
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_00914003-A771-42EA-BA6F-19DC5F0C8AF7.jpg



Monitoring Technician Log

ID: 2018082046273.0

Title:	ES301-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

12:51 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES301-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773193@-104.838701

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D1E92A11-EE28-4D4A-8AD5-7CA9020271A6.jpg	8/20/2018 12:51:56 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES301-5 0’-5’
		Location ES301-5
		Time 01:02 pm
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D1E92A11-EE28-4D4A-8AD5-7CA9020271A6.jpg



Monitoring Technician Log

ID: 2018082237070.0

Title:	ES245-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/22/2018

2 Time

10:17 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 60

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Central Park

2 Excavation Location(s)

Location: ES245-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.776526@-104.877730

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_516CE1F2-4168-4ECF-9781-D596141DDD80.jpg	8/22/2018 10:18:52 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Refusal Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES245-2 0’-2’
		Location ES245-2
		Time 10:28 am
		Date 08/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_516CE1F2-4168-4ECF-9781-D596141DDD80.jpg



Monitoring Technician Log

ID: 2018082954892.0

Title:	ES283-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Overdue

1 General Information

1 Date

08/29/2018

2 Time

03:14 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES283-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773307@-104.842569

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E0B7EA83-A88F-458E-B8E2-AF3ADD402311.jpg	8/29/2018 3:16:03 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Hand auger 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES281-5 0’-5’
		Location ES281-5
		Time 03:39 pm
		Date 08/29/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_E0B7EA83-A88F-458E-B8E2-AF3ADD402311.jpg



Monitoring Technician Log

ID: 2018082039511.0

Title:	ES287-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

10:58 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 8

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES287-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773428@-104.841788

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CDD862F9-F3B3-4306-A6BB-A57A7A387881.jpg	8/20/2018 10:59:25 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES287-5 0’-5’
		Location ES287-5
		Time 11:07 am
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_CDD862F9-F3B3-4306-A6BB-A57A7A387881.jpg



Monitoring Technician Log

ID: 2018082042207.0

Title:	ES293-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

11:43 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES293-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773314@-104.840431

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4477ECEF-3CED-4EDD-8B6F-5413798AD9DA.jpg	8/20/2018 11:44:06 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES293-5 0’-5’
		Location ES293-5
		Time 11:51 am
		Date 08/20/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_4477ECEF-3CED-4EDD-8B6F-5413798AD9DA.jpg



Monitoring Technician Log

ID: 2018082043202.0

Title:	ES295-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:17 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

12:00 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: ES295-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773326@-104.840162

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_25DB2CB2-0CD0-4F8D-B20D-41955DC50D93.jpg	8/20/2018 12:00:39 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)
	Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES295-5 0’-5’
	Location ES295-5
	Time 12:08 PM
	Date 08/20/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories
	Submit Initiated By: Emily Koenigs - 09/11/2018 5:17 PM

Appendix: Attachments

Attachment #1
IMG_25DB2CB2-0CD0-4F8D-B20D-41955DC50D93.jpg



Monitoring Technician Log

ID: 2018082045142.0

Title:	ES299-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	20 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/20/2018

2 Time

12:32 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773244@-104.839177

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2C3BBAA2-6431-46F1-8179-9C8465D33396.jpg	8/20/2018 12:32:52 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES299-5 0’-5’
	Location ES299-5
	Time 12:40 pm
	Date 08/20/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_2C3BBAA2-6431-46F1-8179-9C8465D33396.jpg



Monitoring Technician Log

ID: 2018081651906.0

Title:	ES16-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

02:25 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES16-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779959@-104.935099

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_00900CE9-E189-4AE4-806A-3B1B50F9ADCC.jpg	8/16/2018 2:25:57 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES16-2 0’-2’
		Location ES16-2
		Time 03:18 pm
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_00900CE9-E189-4AE4-806A-3B1B50F9ADCC.jpg



Monitoring Technician Log

ID: 2018080730676.0

Title:	ES20-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:30 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

08:31 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES20-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779942@-104.934105

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_954C4A94-02A8-4EF9-A6D0-6374987D895A.jpg	8/7/2018 9:45:12 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.8

7 Additional Screening Comments/Observations:

PID calibrated

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

Add another

Sample ID ES20-2 0’-2’

Location ES20-2

Time 08:53 am

Date 08/07/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_954C4A94-02A8-4EF9-A6D0-6374987D895A.jpg



Monitoring Technician Log

ID: 2018080736157.0

Title:	ES22–2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

10:02 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES22–2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779932@-104.933700

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4574EC07-B8DD-4490-BF0E-623119AB86E9.jpg	8/7/2018 10:11:03 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES22–2 0’-2’
		Location ES22–2
		Time 10:04 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_4574EC07-B8DD-4490-BF0E-623119AB86E9.jpg



Monitoring Technician Log

ID: 2018080938098.0

Title:	ES157-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:26 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

10:34 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES157-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778030@-104.908502

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0C03392B-B685-4DCC-84A9-6A40094EF6A9.jpg	8/9/2018 10:36:15 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger at 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES157-1 0’-1’
	Location ES157-1
	Time 11:06 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_0C03392B-B685-4DCC-84A9-6A40094EF6A9.jpg



Monitoring Technician Log

ID: 2018080938633.0

Title:	ES159-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

10:43 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES159-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778081@-104.907945

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_93CE1213-D435-4681-9B41-5DBF72D1D474.jpg	8/9/2018 10:44:41 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger at 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES159-1 0’-1’
	Location ES159
	Time 11:14 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_93CE1213-D435-4681-9B41-5DBF72D1D474.jpg



Monitoring Technician Log

ID: 2018080958362.0

Title:	ES160-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

04:12 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES160-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778547@-104.908061

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5877A687-FE2D-4C49-9839-381F61D40604.jpg	8/9/2018 4:13:25 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN160- 0'-1'
	Location ES160-1
	Time 04:27 pm
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_5877A687-FE2D-4C49-9839-381F61D40604.jpg



Monitoring Technician Log

ID: 2018080939021.0

Title:	ES161-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

10:50 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES161-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778100@-104.907443

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_CB4DB893-009E-4FBE-A037-AD8181D9F5B7.jpg	8/9/2018 10:51:08 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES161 0’-1’
	Location ES161-1
	Time 11:20 AM
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_CB4DB893-009E-4FBE-A037-AD8181D9F5B7.jpg



Monitoring Technician Log

ID: 2018080941968.0

Title:	ES165-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

11:39 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES165-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777918@-104.906062

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2872EDF7-500F-4F1F-8481-7A8C0CCED9EC.jpg	8/9/2018 11:40:15 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES165-1 0’-1’
	Location ES165
	Time 11:51 AM
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_2872EDF7-500F-4F1F-8481-7A8C0CCED9EC.jpg



Monitoring Technician Log

ID: 2018080758170.0

Title:	ES171-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:29 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

04:09 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES171-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777943@-104.904426

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C79132E7-AA61-494A-BDC3-D6B155C24354.jpg	8/7/2018 4:10:40 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.0	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Add another	
	Sample ID ES171-1 0’-1’	
	Location ES171-1	
	Time 04:11 pm	
	Date 08/07/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	

Appendix: Attachments

Attachment #1
IMG_C79132E7-AA61-494A-BDC3-D6B155C24354.jpg



Monitoring Technician Log

ID: 2018082235012.0

Title:	ES235-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/22/2018

2 Time

09:43 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 60

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Central Park

2 Excavation Location(s)

Location: ES235-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777179@-104.885000

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7B34CEA4-8BDA-462E-B9FC-100945304FC4.jpg	8/22/2018 9:44:39 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2 Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3 Is there a presence of a distinguishable odor with the disturbed material?

No

4 Are there discreet layers in the soil cross section that generally appear out of place?

No

5 Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6 Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.8

7 Additional Screening Comments/Observations:

PID calibrated

4 Analytical

1 Were analytical samples taken?

Yes

2 Please fill out the information below for each sample location.

Add another

Sample ID ES235-1 0’-1’

Location ES235-1

Time 09:51 am

Date 08/22/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4 Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1 Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_7B34CEA4-8BDA-462E-B9FC-100945304FC4.jpg



Monitoring Technician Log

ID: 2018080735732.0

Title:	ES18-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:27 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

09:55 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES18-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779953@-104.934288

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5561739E-712E-413D-8794-F336D489E2A4.jpg	8/7/2018 9:56:45 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES18-2 0’-2’
		Location ES18-2
		Time 10:01 am
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_5561739E-712E-413D-8794-F336D489E2A4.jpg



Monitoring Technician Log

ID: 2018080941468.0

Title:	ES163-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

11:31 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES163-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777967@-104.906728

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E309DF29-5F45-4ED0-88EC-EC5000CB2058.jpg	8/9/2018 11:32:09 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.2

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES163 0’-1’
	Location ES163-1
	Time 11:57 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_E309DF29-5F45-4ED0-88EC-EC5000CB2058.jpg



Monitoring Technician Log

ID: 2018081732645.0

Title:	ES164-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	17 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/17/2018

2 Time

09:04 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES164-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778683@-104.906663

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7267B60B-A51A-45C2-B9D4-64A33593E397.jpg	8/17/2018 9:04:57 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN164-1 0’-1’
		Location EN164-1
		Time 09:32 am
		Date 08/17/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_7267B60B-A51A-45C2-B9D4-64A33593E397.jpg



Monitoring Technician Log

ID: 2018080951575.0

Title:	ES167-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:26 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

02:19 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES167-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777850@-104.905370

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2C1B6A55-19A7-4A88-930A-FBF459017F24.jpg	8/9/2018 2:29:38 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES167-1 0’-1’
	Location ES167-1
	Time 02:40 pm
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_2C1B6A55-19A7-4A88-930A-FBF459017F24.jpg



Monitoring Technician Log

ID: 2018080756948.0

Title:	ES169-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:27 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

03:49 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES169-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777993@-104.904860

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5C955925-F4BA-40AA-B9F7-01027365A88B.jpg	8/7/2018 3:50:48 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 13.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES169-1 0’-1’
		Location ES169-1
		Time 03:55 PM
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_5C955925-F4BA-40AA-B9F7-01027365A88B.jpg



Monitoring Technician Log

ID: 2018080650793.0

Title:	EN96-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:31 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

02:06 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Grape

2 Excavation Location(s)

Location: EN96-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779037@-104.924666

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_037DEB05-A6B8-4E33-ADFC-C23E7BCCA615.jpg	8/6/2018 2:07:37 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN96-3 0’-3’
		Location EN96-3
		Time 02:16 pm
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_037DEB05-A6B8-4E33-ADFC-C23E7BCCA615.jpg



Monitoring Technician Log

ID: 2018081544569.0

Title:	EN98-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

12:22 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Grape

2 Excavation Location(s)

Location: EN98-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778877@-104.924436

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2C54A17E-FBE1-4CC9-9CE7-52244D1D437E.jpg	8/15/2018 12:23:52 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN98-3 0’-3’
		Location EN98-3
		Time 12:29 pm
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_2C54A17E-FBE1-4CC9-9CE7-52244D1D437E.jpg



Monitoring Technician Log

ID: 2018082150567.0

Title:	ES14-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/21/2018

2 Time

02:02 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: ES14-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779851@-104.935741

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8224FDD5-AEE5-409B-8DAA-D661FC71C67F.jpg	8/21/2018 2:03:36 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES14-2 0’-2’
		Location ES14-2
		Time 02:12 pm
		Date 08/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_8224FDD5-AEE5-409B-8DAA-D661FC71C67F.jpg



Monitoring Technician Log

ID: 2018082355080.0

Title:	ES138-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

03:18 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: ES138-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778203@-104.913741

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_444B4E21-A59B-488B-AE62-F0164143EECA.jpg	8/23/2018 3:22:49 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES138-3 0’-3’
		Location ES138-3
		Time 03:20 PM
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_444B4E21-A59B-488B-AE62-F0164143EECA.jpg



Monitoring Technician Log

ID: 2018082356084.0

Title:	ES140-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:13 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

03:34 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: ES140-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778216@-104.913319

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_954B51B3-5AAA-4332-B148-D47DDC178B32.jpg	8/23/2018 3:38:42 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES140-3 0’-3’
		Location ES140-3
		Time 03:36 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_954B51B3-5AAA-4332-B148-D47DDC178B32.jpg



Monitoring Technician Log

ID: 2018081654000.0

Title:	ES142-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

03:00 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: ES142-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778143@-104.912613

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DAABFF7C-5226-4235-B608-EB602E7C6FC1.jpg	8/16/2018 3:00:57 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 3

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES142-3 0’-3’
		Location ES142-3
		Time 03:16 pm
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_DAABFF7C-5226-4235-B608-EB602E7C6FC1.jpg



Monitoring Technician Log

ID: 2018080931138.0

Title:	ES149-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

08:38 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES149-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778192@-104.911183

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0207BEE4-F7D3-4599-A3BD-65337B7EA019.jpg	8/9/2018 8:39:47 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Fill at 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES149-1 0’-1’
	Location ES149
	Time 09:57 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_0207BEE4-F7D3-4599-A3BD-65337B7EA019.jpg



Monitoring Technician Log

ID: 2018080932845.0

Title:	ES153-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

09:07 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES151-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778170@-104.909805

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1A54344F-AF96-42EB-9040-F68E7B2B3564.jpg	8/9/2018 9:08:07 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.9

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES153-1 0’-1’
	Location ES153
	Time 10:10 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_1A54344F-AF96-42EB-9040-F68E7B2B3564.jpg



Monitoring Technician Log

ID: 2018081444797.0

Title:	EN97-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

12:26 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Grape

2 Excavation Location(s)

Location: EN97-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778905@-104.924538

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_80AB6753-D59A-4717-87DD-11410230F697.jpg	8/14/2018 12:27:32 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN97-3 0’-3’
		Location EN97-3
		Time 12:28 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_80AB6753-D59A-4717-87DD-11410230F697.jpg



Monitoring Technician Log

ID: 2018081444150.0

Title:	EN99-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:24 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

12:15 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN99-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778896@-104.924288

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_53DE55EC-E17F-4F71-998B-D70AAE8D63CA.jpg	8/14/2018 12:16:36 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN99-3 0’-3’
		Location EN99-3
		Time 12:16 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_53DE55EC-E17F-4F71-998B-D70AAE8D63CA.jpg



Monitoring Technician Log

ID: 2018082354343.0

Title:	ES136-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

03:05 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: ES136-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778233@-104.914053

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2C28C325-5235-46C6-BF9C-F450DE8B4338.jpg	8/23/2018 3:06:31 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES136-3 0’-3’
		Location ES136-3
		Time 03:16 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_2C28C325-5235-46C6-BF9C-F450DE8B4338.jpg



Monitoring Technician Log

ID: 2018082357579.0

Title:	ES144-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	23 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:14 PM (Central Time)

1 General Information

1 Date

08/23/2018

2 Time

03:59 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: ES144-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778238@-104.912368

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D53C2DEE-F11F-4C8C-A47D-B735CDFD2BF3.jpg	8/23/2018 4:00:21 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID ES144-3 0’-3’
		Location ES144-3
		Time 04:07 pm
		Date 08/23/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D53C2DEE-F11F-4C8C-A47D-B735CDFD2BF3.jpg



Monitoring Technician Log

ID: 2018080930300.0

Title:	ES147-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

08:25 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES147-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778108@-104.911560

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.0	
4	Analytical	
1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Add another	
	Sample ID ES147-1 0'-1'	
	Location ES147-1	
	Time 09:52 am	
	Date 08/09/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	
5	Disposition Information	
1	Where was the soil disposed?	
	Offsite	

Monitoring Technician Log

ID: 2018080931519.0

Title:	ES151-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

08:45 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES151-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778181@-104.910551

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A787BAC1-F562-4E14-AC52-284A99C9A1B4.jpg	8/9/2018 8:46:42 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES151-1 0’-1’
	Location ES151
	Time 10:03 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_A787BAC1-F562-4E14-AC52-284A99C9A1B4.jpg



Monitoring Technician Log

ID: 2018080933437.0

Title:	ES155-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:26 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

09:17 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: ES151-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778120@-104.909225

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4D0580F7-21A7-4637-86B9-07F741F91168.jpg	8/9/2018 9:18:18 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger Refusal at 8”

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID ES155-1 0’-1’
	Location ES155-1
	Time 10:18 am
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_4D0580F7-21A7-4637-86B9-07F741F91168.jpg



Monitoring Technician Log

ID: 2018080653298.0

Title:	EN90-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:32 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

02:48 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Glencoe

2 Excavation Location(s)

Location: EN90-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779219@-104.925632

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_BBF592FB-6DAF-46D9-8638-5A0C1B4BFA1D.jpg	8/6/2018 2:55:05 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN90-3 0'-3'
		Location EN90-3
		Time 02:49 pm
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_BBF592FB-6DAF-46D9-8638-5A0C1B4BFA1D.jpg



Monitoring Technician Log

ID: 2018081455550.0

Title:	EN54-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:21 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

03:25 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN54-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780321@-104.932600

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_492F4338-FE06-4AD0-B6D7-C420E2C50CE4.jpg	8/14/2018 3:29:23 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN54-2 0’-2’
		Location EN54-2
		Time 03:29 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_492F4338-FE06-4AD0-B6D7-C420E2C50CE4.jpg



Monitoring Technician Log

ID: 2018081454932.0

Title:	EN56-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

03:15 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN56-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780282@-104.932372

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_4158ED36-12B9-4E65-A28E-B611DDC6AAD6.jpg	8/14/2018 3:16:37 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.1

Appendix: Attachments

Attachment #1
IMG_4158ED36-12B9-4E65-A28E-B611DDC6AAD6.jpg



Monitoring Technician Log

ID: 2018081453712.0

Title:	EN58-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

02:55 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN58-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780272@-104.932100

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_08A43B39-5285-44C0-84F0-FB84DF9F9610.jpg	8/14/2018 2:56:10 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN58-2 0’-2’
		Location EN58-2
		Time 02:56 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_08A43B39-5285-44C0-84F0-FB84DF9F9610.jpg



Monitoring Technician Log

ID: 2018081452609.0

Title:	EN60-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:21 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

02:36 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN60-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780219@-104.931885

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_059CCBD4-7F2D-4BCF-AFCD-9165CC2FA518.jpg	8/14/2018 2:39:14 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN60-2 0’-2’
		Location EN60-2
		Time 02:40 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_059CCBD4-7F2D-4BCF-AFCD-9165CC2FA518.jpg



Monitoring Technician Log

ID: 2018081451431.0

Title:	EN62-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

02:17 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN62-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780142@-104.931293

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EDD12462-5050-4B58-8961-2CDCE03D244D.jpg	8/14/2018 2:18:04 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN62-2 0’-2’
		Location EN62-2
		Time 02:22 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_EDD12462-5050-4B58-8961-2CDCE03D244D.jpg



Monitoring Technician Log

ID: 2018081450745.0

Title:	EN64-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:21 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

02:05 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN64-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780133@-104.931075

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A4D7CFC7-7265-49BA-B428-7BD5A99162FC.jpg	8/14/2018 2:07:42 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN64-2 0’-2’
		Location EN64-2
		Time 02:11 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_A4D7CFC7-7265-49BA-B428-7BD5A99162FC.jpg



Monitoring Technician Log

ID: 2018081448853.0

Title:	EN65-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

01:34 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN65-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780109@-104.930810

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_895146B1-37A5-4252-9AB8-840730CF21C1.jpg	8/14/2018 1:35:17 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5	Depth to Native Material (feet)
	Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN65-2 0’-2’
	Location EN65-2
	Time 01:45 pm
	Date 08/14/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_895146B1-37A5-4252-9AB8-840730CF21C1.jpg



Monitoring Technician Log

ID: 2018081447680.0

Title:	EN67-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

01:14 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN67-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779960@-104.930464

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0CC66F34-E0B7-4287-8FFA-89A5B55FB76F.jpg	8/14/2018 1:19:02 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN67-2 0’-2’
		Location EN67-2
		Time 01:19 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_0CC66F34-E0B7-4287-8FFA-89A5B55FB76F.jpg



Monitoring Technician Log

ID: 2018081446644.0

Title:	EN69-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

12:57 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN69-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780006@-104.930192

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D2F6C07D-29CC-45BC-948E-4ACB253FC61A.jpg	8/14/2018 12:58:11 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN69-2 0'-2'
		Location EN69-2
		Time 01:07 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D2F6C07D-29CC-45BC-948E-4ACB253FC61A.jpg



Monitoring Technician Log

ID: 2018080663533.0

Title:	EN70-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:31 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

05:38 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN70-2

3 GPS or Survey Location of RHM Origination

39.7799,-104.9297

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1 Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?	
	No	
3	Is there a presence of a distinguishable odor with the disturbed material?	
	No	
4	Are there discreet layers in the soil cross section that generally appear out of place?	
	No	
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?	
	No	
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?	
	Yes	
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.2	

4 Analytical

1	Were analytical samples taken?	
	Yes	
2	Please fill out the information below for each sample location.	
	Add another	
	Sample ID EN70-2 0'-2'	
	Location EN70-2	
	Time 05:46 pm	
	Date 08/06/2018	
	Media Soil	
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)	
	Laboratory Sent To SGS North America	
4	Is additional sampling required prior to disposal?	
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No	

5 Disposition Information

1	Where was the soil disposed?	
	Offsite	
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories	

Monitoring Technician Log

ID: 2018080656768.0

Title:	EN78-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:32 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

03:46 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN78-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779756@-104.928480

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_C58D85DB-6937-4013-A471-25FFFC85D2DC.jpg	8/6/2018 3:55:12 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN78-2 0'-2'
		Location EN78-2
		Time 03:49 pm
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_C58D85DB-6937-4013-A471-25FFFC85D2DC.jpg



Monitoring Technician Log

ID: 2018080652088.0

Title:	EN92-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:31 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

02:28 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Glencoe

2 Excavation Location(s)

Location: EN92-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779119@-104.925151

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_80DE5225-4FCD-4B6F-B33A-4D433391060D.jpg	8/6/2018 2:42:34 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN92-3 0’-3’
		Location EN92-3
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_80DE5225-4FCD-4B6F-B33A-4D433391060D.jpg



Monitoring Technician Log

ID: 2018081536972.0

Title:	EN42-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

10:16 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN42-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780311@-104.934011

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2B920CE6-B1F9-49F5-97FB-375DC0A294DC.jpg	8/15/2018 10:20:26 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.4
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN42-2 0’-2’
		Location EN42-2
		Time 10:26 am
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_2B920CE6-B1F9-49F5-97FB-375DC0A294DC.jpg



Monitoring Technician Log

ID: 2018081536361.0

Title:	EN44-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

10:06 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN44-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780330@-104.933819

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D796205C-B6DB-4B31-8F55-F6EBE84EDEB4.jpg	8/15/2018 10:09:53 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN44-2 0’-2’
		Location EN44-2
		Time 10:08 am
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D796205C-B6DB-4B31-8F55-F6EBE84EDEB4.jpg



Monitoring Technician Log

ID: 2018081535531.0

Title:	EN46-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

09:52 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN46-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780286@-104.933540

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0249BE5A-DA2C-4DA0-9B9F-EA10F7959580.jpg	8/15/2018 9:53:30 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.1
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN46-2 0’-2’
		Location EN46-2
		Time 09:54 am
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_0249BE5A-DA2C-4DA0-9B9F-EA10F7959580.jpg



Monitoring Technician Log

ID: 2018081456936.0

Title:	EN50-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

03:48 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN50-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780303@-104.933148

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D8DA5DFA-364A-4F0A-9089-CC803790328E.jpg	8/14/2018 3:49:47 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN50-2 0'-2'
		Location EN50-2
		Time 03:57 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D8DA5DFA-364A-4F0A-9089-CC803790328E.jpg



Monitoring Technician Log

ID: 2018081656005.0

Title:	EN218-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

03:33 PM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN218-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777904@-104.888020

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E60DDD98-81B4-4D58-97C7-FFAE3AF963C1.jpg	8/16/2018 3:34:15 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN218-1 0’-1’
		Location EN218-1
		Time 03:53 PM
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_E60DDD98-81B4-4D58-97C7-FFAE3AF963C1.jpg



Monitoring Technician Log

ID: 2018082148593.0

Title:	EN268-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/21/2018

2 Time

01:29 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: EN268-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773422@-104.836637

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D4E5BA56-D3F6-4A3A-B96F-99B033EE5BD5.jpg	8/21/2018 1:31:02 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		3
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5

Appendix: Attachments

Attachment #1
IMG_D4E5BA56-D3F6-4A3A-B96F-99B033EE5BD5.jpg



Monitoring Technician Log

ID: 2018081639079.0

Title:	EN275-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

10:51 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: EN275-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.774542@-104.847768

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6644FAE3-4862-4D10-A10A-140BF3450695.jpg	8/16/2018 10:51:50 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN275-5 0’-5’
		Location EN275-5
		Time 11:07 am
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_6644FAE3-4862-4D10-A10A-140BF3450695.jpg



Monitoring Technician Log

ID: 2018081457653.0

Title:	EN48-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

04:00 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN48-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780292@-104.933330

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_531D3B68-EEC4-4B32-872B-FBCE2254397A.jpg	8/14/2018 4:02:15 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN48-2 0'-2'
		Location EN48-2
		Time 04:08 pm
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_531D3B68-EEC4-4B32-872B-FBCE2254397A.jpg



Monitoring Technician Log

ID: 2018081456462.0

Title:	EN52-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

03:41 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Dahlia

2 Excavation Location(s)

Location: EN52-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.780273@-104.932871

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_61539FFA-4F64-40BF-AE37-2252087269D3.jpg	8/14/2018 3:42:22 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.3

Appendix: Attachments

Attachment #1
IMG_61539FFA-4F64-40BF-AE37-2252087269D3.jpg



Monitoring Technician Log

ID: 2018081657497.0

Title:	EN216-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

03:58 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN216-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.777922@-104.888434

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_73969631-B8E8-49BB-83EC-D3E2567AE9DD.jpg	8/16/2018 3:59:01 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at1’

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 8.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN216-1 0'-1'
		Location EN216-1
		Time 04:07 pm
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_73969631-B8E8-49BB-83EC-D3E2567AE9DD.jpg



Monitoring Technician Log

ID: 2018082251945.0

Title:	EN222-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	22 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:15 PM (Central Time)

1 General Information

1 Date

08/22/2018

2 Time

02:25 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Central Park

2 Excavation Location(s)

Location: EN223-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.776603@-104.876373

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_A7576645-53F6-4EF7-9898-ED72788B5F1C.jpg	8/22/2018 2:26:32 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Mislabeled as EN222-1

	5	Depth to Native Material (feet)
		Fill at 2’
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN222-1 0’-1’
		Location EN222-1
		Time 02:37 pm
		Date 08/22/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_A7576645-53F6-4EF7-9898-ED72788B5F1C.jpg



Monitoring Technician Log

ID: 2018083030901.0

Title:	EN238-4		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Aug 2018
Reporter:	Alex Becker	**Status:**	Overdue

1 General Information

1 Date

08/30/2018

2 Time

08:35 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Havana

2 Excavation Location(s)

Location: EN238-4

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.776087@-104.865570

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2C2D5801-EDDD-4753-8A6E-A0611609095A.jpg	8/30/2018 8:39:20 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.6
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN238-4 0’-4’
		Location EN238-4
		Time 09:09 am
		Date 08/30/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_2C2D5801-EDDD-4753-8A6E-A0611609095A.jpg



Monitoring Technician Log

ID: 2018082146834.0

Title:	EN270-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	21 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:16 PM (Central Time)

1 General Information

1 Date

08/21/2018

2 Time

01:00 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: EN270-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.773381@-104.835778

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_47552988-6C4E-458C-8307-5F44A4727D83.jpg	8/21/2018 1:01:27 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		4
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.4
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN270-3 0’-3’
		Location EN270-3
		Time 01:01 pm
		Date 08/21/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_47552988-6C4E-458C-8307-5F44A4727D83.jpg



Monitoring Technician Log

ID: 2018081639469.0

Title:	EN273-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

10:57 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: EN273-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.774563@-104.849054

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_638C0CF1-8281-4F29-B53D-8093F13015A8.jpg	8/16/2018 10:58:14 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 9.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN273-5 0’-5’
		Location EN273-5
		Time 11:16 am
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_638C0CF1-8281-4F29-B53D-8093F13015A8.jpg



Monitoring Technician Log

ID: 2018081644509.0

Title:	EN277-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

12:21 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: EN277-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.774506@-104.845914

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_0A09FE97-E99F-4366-8B51-D6FE3ADF344F.jpg	8/16/2018 12:22:39 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN277-5 0’-5’
		Location EN277-5
		Time 12:29 pm
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_0A09FE97-E99F-4366-8B51-D6FE3ADF344F.jpg



Monitoring Technician Log

ID: 2018081643856.0

Title:	EN279-5		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

12:10 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Peoria

2 Excavation Location(s)

Location: EN279-5

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.774157@-104.844313

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5F32E0EC-DCEA-4B11-89B6-9EA88450B0D7.jpg	8/16/2018 12:11:48 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.9
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN279-5 0’-5’
		Location EN279-5
		Time 12:17 pm
		Date 08/16/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_5F32E0EC-DCEA-4B11-89B6-9EA88450B0D7.jpg



Monitoring Technician Log

ID: 2018080350173.0

Title:	EN146-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	3 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:32 PM (Central Time)

1 General Information

1 Date

08/03/2018

2 Time

01:56 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN146-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778476@-104.912427

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_E5D66358-9B28-433E-8825-EE684B70E39D.jpg	8/3/2018 1:57:17 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.4
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN146-3 0’-3’
		Location EN146-3
		Date 08/03/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_E5D66358-9B28-433E-8825-EE684B70E39D.jpg



Monitoring Technician Log

ID: 2018080954220.0

Title:	EN154-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

03:03 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN154-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778595@-104.909810

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2011E14A-5297-4820-80B1-8C40E6461D49.jpg	8/9/2018 3:04:33 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1’

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN154-1 0’-1’
	Location EN154-1
	Time 03:16 pm
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_2011E14A-5297-4820-80B1-8C40E6461D49.jpg



Monitoring Technician Log

ID: 2018080955278.0

Title:	EN156-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:25 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

03:21 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN156-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778602@-104.909288

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_DC27B75F-5FDB-4070-9E2B-435C5B4780A0.jpg	8/9/2018 3:22:05 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN156-1 0’-1’
	Location EN156-1
	Time 03:38 pm
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_DC27B75F-5FDB-4070-9E2B-435C5B4780A0.jpg



Monitoring Technician Log

ID: 2018080956547.0

Title:	EN158-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	9 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:26 PM (Central Time)

1 General Information

1 Date

08/09/2018

2 Time

03:42 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN158-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778636@-104.909029

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B1D2E281-7FCA-4475-9110-FA08B20D067A.jpg	8/9/2018 3:43:22 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

5 Depth to Native Material (feet)

Hand auger 1

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.7

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN158-1 0’-1’
	Location EN158-1
	Time 04:00 pm
	Date 08/09/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_B1D2E281-7FCA-4475-9110-FA08B20D067A.jpg



Monitoring Technician Log

ID: 2018081735287.0

Title:	EN162-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	17 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/17/2018

2 Time

09:48 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN162-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778520@-104.907550

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_23C056FE-7C29-4A6C-8916-2C359645115F.jpg	8/17/2018 9:48:52 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN162-1 0’-1’
		Location EN162-1
		Time 10:00 am
		Date 08/17/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_23C056FE-7C29-4A6C-8916-2C359645115F.jpg



Monitoring Technician Log

ID: 2018081731938.0

Title:	EN166-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	17 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:19 PM (Central Time)

1 General Information

1 Date

08/17/2018

2 Time

08:52 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN166-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778760@-104.906029

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_7F3485CB-942C-442C-80FD-9DAC96A84931.jpg	8/17/2018 8:53:10 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN166-1 0’-1’
		Location EN166-1
		Time 09:26 am
		Date 08/17/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_7F3485CB-942C-442C-80FD-9DAC96A84931.jpg



Monitoring Technician Log

ID: 2018081731377.0

Title:	EN168-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	17 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/17/2018

2 Time

08:42 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Quebec

2 Excavation Location(s)

Location: EN168-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778888@-104.905501

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_74C61A3D-D1C0-4535-B56F-8F12B5A94650.jpg	8/17/2018 8:43:51 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 1
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN168-1 0’-1’
		Location EN168-1
		Time 09:18 am
		Date 08/17/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Appendix: Attachments

Attachment #1
IMG_74C61A3D-D1C0-4535-B56F-8F12B5A94650.jpg



Monitoring Technician Log

ID: 2018080756233.0

Title:	EN170-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:27 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

03:37 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN170-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778669@-104.905001

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2126FC3E-D8E9-4E81-BD09-7DE8952EC804.jpg	8/7/2018 3:38:44 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 12.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN170-1 0’-1’
		Location EN170-1
		Time 03:40 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_2126FC3E-D8E9-4E81-BD09-7DE8952EC804.jpg



Monitoring Technician Log

ID: 2018080754741.0

Title:	EN172-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	7 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:30 PM (Central Time)

1 General Information

1 Date

08/07/2018

2 Time

03:12 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN172-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778748@-104.904422

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_D8C511F0-4B96-4A28-A15C-46DB7D95CD5D.jpg	8/7/2018 3:23:51 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN172-1 0’-1’
		Location EN172-1
		Time 03:24 pm
		Date 08/07/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_D8C511F0-4B96-4A28-A15C-46DB7D95CD5D.jpg



Monitoring Technician Log

ID: 2018083034297.0

Title:	EN190-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:02 PM (Central Time)

1 General Information

1 Date

08/30/2018

2 Time

09:31 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-270

2 Excavation Location(s)

Location: EN190-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778884@-104.897971

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_8899EF37-A685-4C11-83F8-DF290CC0DEA2.jpg	8/30/2018 9:32:56 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 3.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN190-2 0’-2’
		Location EN190-2
		Time 09:44 am
		Date 08/30/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_8899EF37-A685-4C11-83F8-DF290CC0DEA2.jpg



Monitoring Technician Log

ID: 2018083033814.0

Title:	EN191-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	30 Aug 2018
Reporter:	Alex Becker	**Status:**	Overdue

1 General Information

1 Date

08/30/2018

2 Time

09:23 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

I-225

2 Excavation Location(s)

Location: EN191-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778688@-104.897801

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_629EB81E-E847-4D3D-A052-385E10B34AD5.jpg	8/30/2018 9:24:40 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN191-2 0’-2’
		Location EN191-2
		Time 09:52 am
		Date 08/30/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_629EB81E-E847-4D3D-A052-385E10B34AD5.jpg



Monitoring Technician Log

ID: 2018081541629.0

Title:	EN134-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:21 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

11:33 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN134-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778515@-104.915186

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3564795D-9EF3-4779-8646-401DC9B40DCF.jpg	8/15/2018 11:52:59 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN134-2 0’-2’
		Location EN134-2
		Time 11:45 am
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_3564795D-9EF3-4779-8646-401DC9B40DCF.jpg



Monitoring Technician Log

ID: 2018081736692.0

Title:	EN144-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	17 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/17/2018

2 Time

10:11 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN144-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778588@-104.912689

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_5E762B25-18F7-4AB7-BA4A-D05E441392C6.jpg	8/17/2018 10:12:25 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at 2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.3
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN144-2 0’-2’
		Location EN144-2
		Time 10:51 am
		Date 08/17/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_5E762B25-18F7-4AB7-BA4A-D05E441392C6.jpg



Monitoring Technician Log

ID: 2018082935890.0

Title:	EN146-1		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	29 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:03 PM (Central Time)

1 General Information

1 Date

08/29/2018

2 Time

09:58 AM

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN146-1

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778596@-104.912201

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F83B1A6D-322A-49D6-AB32-8E2A291AC031.jpg	8/29/2018 9:59:15 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

Fill at 1

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN146-1 0’-2’
		Location EN146-1
		Time 10:14 am
		Date 08/29/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_F83B1A6D-322A-49D6-AB32-8E2A291AC031.jpg



Monitoring Technician Log

ID: 2018081650474.0

Title:	EN14-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	16 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/16/2018

2 Time

02:01 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Colorado

2 Excavation Location(s)

Location: EN14-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.779854@-104.935714

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3ACB36F0-1D19-4F9D-A5DA-F95122FEDAE1.jpg	8/16/2018 2:02:08 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Refusal

Appendix: Attachments

Attachment #1
IMG_3ACB36F0-1D19-4F9D-A5DA-F95122FEDAE1.jpg



Monitoring Technician Log

ID: 2018080141773.0

Title:	EN122-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

11:36 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Overcast

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN122-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778453@-104.920640

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B5D025B6-E4F1-4E7C-AB61-26D67EE13584.jpg	8/1/2018 11:37:07 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.0
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN122-2 0’-2’
		Location EN122-2
		Time 11:43 am
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_B5D025B6-E4F1-4E7C-AB61-26D67EE13584.jpg



Monitoring Technician Log

ID: 2018080141169.0

Title:	EN124-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

11:26 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN124-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778467@-104.920261

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_EE315B40-A2DF-40C4-B6A0-E91B30A86492.jpg	8/1/2018 11:27:16 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.1
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN124-2 0’-2’
		Location EN124-2
		Time 11:28 am
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_EE315B40-A2DF-40C4-B6A0-E91B30A86492.jpg



Monitoring Technician Log

ID: 2018080643860.0

Title:	EN132-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:32 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

12:11 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 70

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Leyden

2 Excavation Location(s)

Location: EN132-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778550@-104.915642

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_17296205-BB21-466B-A7BF-B774E49FD225.jpg	8/6/2018 12:13:30 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
	No
2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
	No
3	Is there a presence of a distinguishable odor with the disturbed material?
	No
4	Are there discreet layers in the soil cross section that generally appear out of place?
	No
5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
	No
6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
	Yes
	If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.7
7	Additional Screening Comments/Observations:
	PID calibrated

4 Analytical

1	Were analytical samples taken?
	Yes
2	Please fill out the information below for each sample location.
	Add another
	Sample ID EN132-2 0’-2’
	Location EN132-2
	Time 12:17 pm
	Date 08/06/2018
	Media Soil
	Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
	Laboratory Sent To SGS North America
4	Is additional sampling required prior to disposal?
	Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?
	Offsite
	Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_17296205-BB21-466B-A7BF-B774E49FD225.jpg



Monitoring Technician Log

ID: 2018081543228.0

Title:	EN132-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:21 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

12:00 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Leyden

2 Excavation Location(s)

Location: EN132-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778498@-104.915618

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_95B34DAC-C52E-40D6-845F-B2BA91F0C145.jpg	8/15/2018 12:01:32 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

4

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.5
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN132-2 0’-2’
		Location EN132-2
		Time 12:06 pm
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_95B34DAC-C52E-40D6-845F-B2BA91F0C145.jpg



Monitoring Technician Log

ID: 2018080645131.0

Title:	EN134-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	6 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:32 PM (Central Time)

1 General Information

1 Date

08/06/2018

2 Time

12:32 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Leyden

2 Excavation Location(s)

Location: EN134-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778610@-104.915247

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_48318B19-471B-4C5B-9145-DBD8104C0B49.jpg	8/6/2018 12:33:27 PM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

5 Depth to Native Material (feet)

2

3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 5.8
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN134-2 0’-2’
		Location EN134-2
		Time 12:41 pm
		Date 08/06/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_48318B19-471B-4C5B-9145-DBD8104C0B49.jpg



Monitoring Technician Log

ID: 2018081540309.0

Title:	EN135-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:21 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

11:11 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN136-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778509@-104.914733

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_F5E543EF-2449-449F-8D1C-1DAB73E8CB05.jpg	8/15/2018 11:18:50 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Labeled as EN135

5	Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 6.6

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

Add another

Sample ID EN136-2 0’-2’

Location EN136-2

Time 11:19 am

Date 08/15/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_F5E543EF-2449-449F-8D1C-1DAB73E8CB05.jpg



Monitoring Technician Log

ID: 2018081538881.0

Title:	EN139-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	15 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:20 PM (Central Time)

1 General Information

1 Date

08/15/2018

2 Time

10:48 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN139-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778492@-104.913732

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_2FD11E4D-F854-4EB4-BD4F-214EF8EA48D0.jpg	8/15/2018 10:55:59 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 2.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN139-2 0’-2’
		Location EN139-2
		Time 10:56 am
		Date 08/15/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_2FD11E4D-F854-4EB4-BD4F-214EF8EA48D0.jpg



Monitoring Technician Log

ID: 2018080139271.0

Title:	EN141-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	1 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/01/2018

2 Time

10:54 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN141-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778496@-104.913253

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_B366F982-488D-4198-9A93-0FB74F3A18CB.jpg	8/1/2018 10:55:40 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 1.9
	7	Additional Screening Comments/Observations:
		PID calibrated
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN141-2 0’- 2’
		Location EN141-2
		Time 10:58 am
		Date 08/01/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_B366F982-488D-4198-9A93-0FB74F3A18CB.jpg



Monitoring Technician Log

ID: 2018081737326.0

Title:	EN141-2		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	17 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:18 PM (Central Time)

1 General Information

1 Date

08/17/2018

2 Time

10:22 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Monaco

2 Excavation Location(s)

Location: EN141-2

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778576@-104.913220

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_1CD65139-C423-4EB3-A2EF-75FF546B78EF.jpg	8/17/2018 10:23:02 AM

4 Identification of Vertical Horizon

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Hand auger

	5	Depth to Native Material (feet)
		Fill at2
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.2
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN141-2 0'-2'
		Location EN141-2
		Time 10:44 am
		Date 08/17/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_1CD65139-C423-4EB3-A2EF-75FF546B78EF.jpg



Monitoring Technician Log

ID: 2018081442642.0

Title:	EN101-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

11:50 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN101-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778849@-104.923965

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_698E9CC2-6BB9-4D76-9206-996A8BF58A7D.jpg	8/14/2018 11:51:29 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 7.6
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN101-3 0’-3’
		Location EN101-3
		Time 11:53 am
		Date 08/14/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No
5	Disposition Information	
	1	Where was the soil disposed?
		Offsite
		Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_698E9CC2-6BB9-4D76-9206-996A8BF58A7D.jpg



Monitoring Technician Log

ID: 2018080352663.0

Title:	EN102-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	3 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:33 PM (Central Time)

1 General Information

1 Date

08/03/2018

2 Time

02:37 pm

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Partly Cloudy

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN102-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778745@-104.923833

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_6B5C2728-D807-423C-9B3E-A88FCBD48CE6.jpg	8/3/2018 2:38:23 PM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

	5	Depth to Native Material (feet)
		Fill at 5
3	Field Screening/Monitoring	
	1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?
		No
	2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?
		No
	3	Is there a presence of a distinguishable odor with the disturbed material?
		No
	4	Are there discreet layers in the soil cross section that generally appear out of place?
		No
	5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?
		No
	6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?
		Yes
		If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 10.7
4	Analytical	
	1	Were analytical samples taken?
		Yes
	2	Please fill out the information below for each sample location.
		Add another
		Sample ID EN102-3 0’-3’
		Location EN102-3
		Time 02:38 pm
		Date 08/03/2018
		Media Soil
		Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)
		Laboratory Sent To SGS North America
	4	Is additional sampling required prior to disposal?
		Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

Appendix: Attachments

Attachment #1
IMG_6B5C2728-D807-423C-9B3E-A88FCBD48CE6.jpg



Monitoring Technician Log

ID: 2018081441706.0

Title:	EN102-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:22 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

11:35 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

4 Identification of Vertical Horizon

Comments: No recovery

Monitoring Technician Log

ID: 2018081440424.0

Title:	EN105-3		
Org Unit:	26582 - 103565 - Central 70 KIC	**Event Date:**	14 Aug 2018
Reporter:	Alex Becker	**Status:**	Complete 9/11/2018 5:23 PM (Central Time)

1 General Information

1 Date

08/14/2018

2 Time

11:13 am

3 Monitoring Technician

Monitoring Technician Name: Alex Becker

Phone Number: 720-645-9808

Email: abecker@familyenvironmental.com

4 Weather

Temperature (F): 80

Weather: Sunny

5 Descriptions of Work Activities

Direct push soil sampling.

6 BMPs in place/used

Description of BMPs in place: Daily Safety Meetings, Liner cutter, and PPE including: Reflective Vests, Eye Protection, Hearing Protection, Hard Hats, Steel Toe Boots

2 RHM Origination

1 Property Description (area material was generated)

Holly

2 Excavation Location(s)

Location: EN103-3

3 GPS or Survey Location of RHM Origination

GPS Coordinates 39.778763@-104.923618

Attachments:

Attachment Name	Associated to Event Date/Time
IMG_3D76161B-E779-410E-A9E6-B2F635067CA5.jpg	8/14/2018 11:14:46 AM

4 Identification of Vertical Horizon

Select those that apply. Asphalt and Concrete Surfacing

Select those that apply. Road Base

Select those that apply. Near Surface Soil

Select those that apply. Shallow Unsaturated Soil

Comments: Not as labeled 105

5	Depth to Native Material (feet)

Fill at 5

3 Field Screening/Monitoring

1	Does the material show signs of visual staining, including greying (grey material, indicating reducing surface conditions), or dark coloration?

No

2	Is there an indication of non-soil materials (e.g., debris, sludge, powders, coal-based fill) present in the disturbed material?

No

3	Is there a presence of a distinguishable odor with the disturbed material?

No

4	Are there discreet layers in the soil cross section that generally appear out of place?

No

5	Did the disturbed soil fail to pass any other "looks bad, smells bad" parameters?

No

6	Were field measurements taken with a photo-ionization detector (PID) of the disturbed material?

Yes

If yes, please include the analytes and corresponding results in the text box below or attach a file to the right 4.5

4 Analytical

1	Were analytical samples taken?

Yes

2	Please fill out the information below for each sample location.

Add another

Sample ID EN103-3 0’-3’

Location EN103-3

Time 11:21 am

Date 08/14/2018

Media Soil

Analysis PAHs by USEPA Method 8270SIM; RCRA 8 metals by USEPA Method 6010B/7041; VOCs by USEPA Method 8260B; and Individual COCs will be further analyzed by the Toxicity Characteristic Leachate Procedure (TCLP)

Laboratory Sent To SGS North America

4	Is additional sampling required prior to disposal?

Attach all additional sampling to the right then select "Save and Close" at the top of the form. Additional work to this form can be completed at a later time. No

5 Disposition Information

1	Where was the soil disposed?

Offsite

Description of the offsite disposal location: 55 gallon drum at Vine Laboratories

Appendix: Attachments

Attachment #1
IMG_3D76161B-E779-410E-A9E6-B2F635067CA5.jpg



8

Location Holly Date 7/26/18

Project / Client Central 70/ Kiewit

			PID (ppm)
1006	ES 130-3		4.2
	native 2'		
1118	ML 23-4-5	TO 27'	0.4
	native 8'		
1136	ML 23-1-5	TO = 20'	6.1
	native 19'		
1231	ML 23-7-5		
	hand auger to 1'		
	39.7809, -104.9620		
1240	dH site		
7/30/18			
0745	on site, H+S meeting		
1052	EN 154-1		3.6
	native Fill @ 5'		
1356	EN 152-1		
	hand auger		3.8
1413	Fill @ 1'		
	EN 150-1		3.9
	hand auger Fille 1'		
1432	EN 148-1		7.0
	hand auger Fill @ 1'		
1445	dH site		

9

Location Monaco Date 7/31/18

Project / Client Central 70/ Kiewit

		PID (ppm)
0750	on Site, H+S meeting	
0930	potholing	
1520	dH site	
	Note: potholed EN 146, ~~46~~ EN 141, EN 124, EN 122, EN 120, EN 118, EN 116, EN 114, EN 112, EN 110, EN 108	
8/1/18		
0750	on site, H+S meeting	
0950	EN 141-2	1.9
	Fill @ 5'	
1026	EN 124-2	4.1
	Fill @ 5	
1044	EN 122-2	5.0
	Fill @ 5	
1100	EN 120-2	7.4
	Fill @ 5	
1126	EN 118-2	9.2
	Fill @ 5	
1146	EN 116-2	8.6
	Fill @ 5	
1200	EN 114-2	5.7
	Fill @ 5	
1220	EN 108-3	7.1
	Fill @ 5	
1300	dH site	

10

Location Nunacs Date 8/3/18

Project / Client Central 70 / Kiewit

		PID (ppm)
8/3/18	1230 on site	
1255	EN 146-3	5.4
	native Fill @ 5'	
1314	EN 106-3	3.9
	native Fill @ 5	
1326	EN 104-3	3.9
	native - Fill 5	
1336	EN 102-3	10.7
	native Fill 5' 1345 off site	
	8/6/18	
0715	on site	
~~0819~~	~~ES 20-2~~	
	~~native~~	
1111	EN 132-2	4.7
	native @ 2'	
1131	EN 134-2	5.8
	native 2'	
1200	EN ~~88-3~~ 96-3	2.9
	native 2'	
	EN 94-3	6.4
1315	native 2'	
1326	EN 92-3	4.6
	native 2'	

Location Glencoe Date 8/6/18 11

Project / Client Central 70 / Kiewit

8/6/18

		PID (ppm)
1347	EN 90-3	7.8
	native 2'	
1409	EN 88-3	3.2
	native - Fille 5	
	EN 82-2	4.2
1424	native 2'	
1437	EN 80-2	6.6
	native 2'	
1446	EN 78-2	3.4
	native 2'	
1458	EN 76-2	7.4
	native 2'	
1514	EN 74-2	6.5
	native 2'	
	39.7799 -104.9290	
1530	EN 72-2	4.7
	native Fille 5'	
1540	39.7799 -104.9294	
	EN 70-2	6.2
	Fill @ 5' 39.7799 -104.9297	
1600	off site	

12

Location Jackson, Dahlia Date 8/7/18

Project / Client Central 70 / Kiewit

		PID (ppm)
	0700	
8/7/18	on site, HASP meeting	
0745	ES 20-2	1.8
	native. Fill @ 5'	
0853	ES 18-2	2.1
	Fill @ 5'	
0902	ES-22-2	5.3
	Fill @ 5'	
0941	ES 41-2	0.9
	native @ 4'	
1000	ES43-2	2.8
	native @ 2'	
1012	ES 45-2	2.8
	native @ 2'	
1026	ES 47-2	1.2
	native @ 2'	
1031	ES 49-2	9.4
	native @ 2	
1044	ES 51-2	4.4
	native @ Fill @ 5'	
1051	ES 53-2	5.1
	fill @ 5'	
1103	ES 55-2	5.7
	Fill @ 5'	

13

Location Dahlia Date 8/7/18

Project / Client Central 70 / Kiewit

		PID (ppm)
1116	ES 57-2	9.1
	native @ 2'	
1133	ES 59-2	6.7
	native 2'	
1141	ES 61-2	9.0
	native 4'	
1200	ES 63-2	8.5
	native 4'	
1214	ES 65-2	8.9
	native 2'	
1226	ES 67-2	8.8
	native 2'	
1236	ES 69-2	10.5
	native 2'	
1246	ES 71-2	7.7
	native fill @ 5'	
1403	EN 172-1	10.1
	native 1'	
1426	EN 170-1	12.1
	native 1'	
1446	ES 169-1	13.1
	native 1'	
1451	ES 171-1	6.0
	native 1'	
1515	off site	

Rite in the Rain

12 14

Location Jackson / Quebec Date 8/8/18

Project / Client Central 70 / Brewit

8/8/18 PID (ppm)

0800	on site, H+S meeting	
0830	dig site due to dig permitting	
8/9/18		
0700	on site, H+S	Hand Augering to 1':
0725	ES 147-1	2.0
	Fille 1'	
0735	ES 149-1	3.7
	Fille 1	
0745	ES 151-1	3.8
	Fille 1'	
0755	ES 153-1	3.9
	Fille 1'	
0800	ES 154-1	11.5
	Hand auger refusal 8"	
0815	ES 157-1	4.5
	Fille 1'	
0930	ES 158-1	7.7
	Fille 1'	
0945	ES 161-1	7.2
	Fille 1	
1045	ES 163-1	5.2
	Fille 1'	
1100	ES 165-1	4.4
	Fille 1'	

Location Quebec Date 8/9/18 15

Project / Client Central 70 / Brewit

PID (ppm)

1336	ES 167-1	
	Fille 1'	2.4
1423	EN 154-1	7.8
	Fille 1	
1433	EN 156-1	5.8
	Fille 1	
1455	EN 158-1	6.7
	Fille 1	
	EN 160-1	5.8
1522	Fille 1	
8/10/18		
0800	on Site, H+S meeting	
0942	ES 2-2	2.7
	native @ 4'	
1012	ES 186-2	3.4
	native @ 1'	
1105	ST 108-7-5	6.4
	native @ 4'	
	ST 108-8-5	3.9
1114	native @ 4'	
1125	ST 108-4-5	8.3
	native Fill @ TD 15'	
1146	ST 108-8-5	4.6
	native @ 4'	

12 16

Location Brighton Date 8/10/18

Project / Client Central 70 / Kiewit

		PID (ppm)
1200	ST 108-9-5	2.3
	native 4'	
1213	ST 109-1-5	2.7
	native 4'	
1236	ST 109-3-3	8.9
	native 4'	
1256	ST 109-6-5	4.0
	native 5'	
1318	ST 110-1-5	6.8
	native 5'	
1344	ST 110-3-5	6.7
	native 5'	
1404	ST 109-8-5	3.5
	native 5'	
1420	AA off	—

8/14/18	0800	AB on site, H&S meeting	
0930	EN 110-3		2.3
	native Fill e 5'		2.5
0945	EN 107-3		
	native Fill e 5'		
1060	EN 105-3		3.0
	native Fill e 5'		

Location Holly Date 8/14/18 17

Project / Client Central 70 / Kiewit

		PID (ppm)
1012	EN 103-3	
	native Fille 5	4.8
1023	EN 102-3 Resurfacing, no sampling	
	native Fille 5 note: potholed asphalt	
1052	EN 101-3	7.6
	native Fille 5	
1114	EN 99-3	4.7
	native Fille 5	
1124	EN 97-3	3.0
	native Fille 5'	
1200	EN 69-2	4.5
	native Fille 5'	
1210	EN 67-2	1.2
	native Fille 5'	
1252	EN 65-2	4.8
	native Fille 5'	
1304	EN 64-2	6.9
	native Fille 5'	
1314	EN 62-2	4.7
	native Fille 5	
1335	EN 60-2	6.5
	native Fille 5	
1357	EN 58-2	8.6
	native Fill e 5	

18

Location Holly Date 8/14/18

Project / Client Central 70 / Brewitt

		PID (ppm)
1414	EN 56-2	
	native Fill 5'	10.1
1425	EN 54-2	8.0
	native Fill 5'	
1439	EN 52-2	8.3
	native Fill 5'	
	EN 50-2	5.3
1448	native Fill 5'	
1500	EN 48-2	5.3
	native Fill 5'	
1515	off site	
8/15 0730	onsite AB, H+S meeting	
0851	EN 46-2	
	native Fill 5'	3.1
0906	EN 44-2	3.0
	native Fill 5'	
0915	EN 42-2	5.4
	native Fill 5'	
0946	EN 139-2	2.7
	native Fill 5'	
1000	EN 138-2	1.8
	native Fill 5'	
1009	EN 136-2	6.6
	native Fill 5'	

Location Holly / Peoria Date 8/15/18

19

Project / Client Central 70 / Brewitt

	PID (ppm)
1035 EN 134-2	
native ~~Fill~~ 5'	2.3
1057 EN 132-2	5.5
native 4'	
1119 EN 98-3	10.6
fill 5'	
1131 EN 96-3	4.9
fill 5'	
1380 off site	
8/16/18	
0700 AB on site, H+S meeting	
0840 ES 308-5	3.7
native 2'	
0904 ES 310-5	2.9
native 2'	
0950 EN 275-5	2.8
native 2'	
1000 EN 273-5	9.7
native 2'	
1033 ES 314-5	7.6
native 1'	
1047 ES 312-5	7.2
native 2'	

Rite in the Rain

12

20 Location Peoria Date 8/16/18

Project / Client Central 70 / Kiewit

			PID (ppm)
1109	BN279-5		4.9
	native @ 1'		
	BW 277-5		6.6
1121	native @ 1'		
1300	ES14-2	vetasol hand augers	
1323	ES16-2	hand augers	1.2
	fill @ 2'		
1400	ES142-3		7.6
	fill @ 3'		
1432	EN218-1		3.7
	FM @ 1'		
1457	EN216-1		8.7
	fill @ 1'		
1510	off site		

8/17/18

0700	AB on site, H+S meeting,	Hand Augers	
0745	EN168-1		2.7
	fill @ 1'		
0751	EN166-1		4.8
	fill @ 1'		
0803	EN164-1		3.6
	Fill @ 1'		
0847	EN162-1		6.0
	Fill @ 1'		

21

Location Peoria Date 8/20/18

Project / Client Central 70 / Kiewit

		PID (ppm)
0910	EN 144-2	2.3
	native fill @ 2'	
0921	EN 141-2	4.2
	native fill @ 2'	
0950	off site	

8/20/18

0700	AB on site, H+S meeting	
0933	ES285-5	7.8
	Native Fill @ 5'	
0937	ES287-5	1.7
	Native Fill @ 5'	
1014	ES289-5	0.7
	Native Fill @ 5'	
1027	ES291-5	1.3
	Native Fill @ 5'	
1042	ES293-5	1.6
	Native Fill @ 5'	
1057	ES295-5	3.2
	Native Fill @ 5'	
1111	ES297-5	3.5
	Native Fill @ 5'	
1121	ES299-5	3.0
	Native fill @ 5'	

Rite in the Rain

12

22

Location Peoria Date 8/20/18

Project / Client Central I-70 / Kiewit

		PID ppm
		3.1
1153	ES301-5	
	Native Fill e 5'	4.4
1204	ES303-5	
	Native Fill e 5'	5.8
1221	ES305-5	
	Native Fill e 5'	7.3
1242	ES307-5	
	Native Fill e 5'	
1300	off site	

8/21/18

0700	AB on site, H+S meeting	
1200	Note: traffic control needed to be relocated	
	EN270-3	2.6
	Native 4'	4.5
1230	EN268-3	
	Native 3'	4.8
1302	ES14-2	
	Native 4'	
1320	off site	

8/22/18

0700	AB on site, H+S meeting	1.8
0843	ES235-1	
	Native 4'	

Location Central Park Date 8/22/18 23

Project / Client Central I-70 / Kiewit

		PID ppm
0856	ES237-1	1.1
	native 4'	
0917	ES245-2	3.0
	~~native~~ natural fill e 2'	1.1
1328	EN223-1	
	native Fill e 2'	
1345	off site	

8/23/18

0700	AB on site, H+S meeting	
1106	~~ES73~~ ES73-3	2.5
	Fill e 5'	
1120	ES75-3	2.8
	Fill e 5'	
1139	ES77-3	2.1
	Fill e 5'	
1152	ES79-3	1.8
	Fill e 5'	
1207	ES81-3	3.0
	Fill e 5'	
1230	ES83-3	4.7
	Fill e 5'	
1244	~~ES85-3~~ ES90-3	
	fill e 5'	

Rite in the Rain

Location Holly Date 8/23/18

Project / Client Central I-70 / Kiewit

		PID (ppm)
1300	~~ES 87-3~~ ES92-3	
	Fille 5'	8.4
1322	ES 94-3	7.7
	Fille 5'	
1339	ES 96-3	9.8
	Fille 5'	
1405	ES 136-3	4.3
	Fille 5'	
1419	ES 138-3	5.3
	Fill e 5'	
1430	ES 140-3	6.4
	Fill e 5'	
1458	ES 144-3	6.8
	Fille 5'	

8/28/18

0700	AB on site, Hit S meeting		
0725	ES 816-2	Hand Augers:	4.1
	Fill e 2'		
0736	ES ~~218-2~~ 25-2		2.4
	Fill e 2'		
0756	ES 27-2		32.4
	Fill e 2'		
	Note: cleaned PID and screen		
	at 2.5		

Location Dahlia Date 8/28/18

Project / Client Central I-70 / Kiewit

		PID (ppm)
0910	ES 29-2	5.3
	Fill e 2'	
0919	ES 31-2	5.0
	Fill e 2'	
0936	ES 33-2	4.4
	Fill e 2'	
1007	ES 35-2	4.0
	Fill e 2'	
1017	ES 37-2	5.9
	Fill e 2'	
1750	ES 39-2	4.6
	Fill	
1430	off site	

8/29/18

0700	AB on site, Hit S meeting		
0752	ES 87-3	Hand Augers:	2.4
	Fill e 3'		
0806	ES 89-3		2.1
	Fill 3'		
0908	EN 146-1		4.2
	Fill e 1'		
0922	EN 112-3		3.0
	Fill e 3'		

Rite in the Rain

26

Location Central Park Date 8/29/18

Project / Client Central I-70 / Hiewit

			PID (ppm)
1020	ES239-1		2.8
	Fill @ 1'		
1352	ES281-5		3.5
	Fill or native @ 5 note H.A		
1414	ES283-5		
	Fill or native @ 5 not H.A.		2.9
1440	off site		
8/30/18			
0700	AB on site,	H/S meeting	1.6
0733	EN238-4	Hand Augers:	
0	Fill @ 4'		
0822	EN191-2		2.7
	Fill @ 1'		
0838	EN190-2		3.1
	Fill 2'		
0900	off site		

27

Location Date

Project / Client

APPENDIX B

Sample						DA4635-1	DA4635-2	DA4635-3	DA4635-4	DA4635-5	DA4635-6
Client_ID						CSB-ST1-0'-0.5'	CSB-ST1-0.5'-1.0'	CSB-ST2-0'-0.5'	CSB-ST2-0.5'-1.0'	CSB-ST3-0'-0.5'	CSB-ST3-0.5'-1.0'
Depth (ft BGS)						0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected						4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018
		CO GW Protection Values (GPV) - Soil GW Protection (CDPHE 3/14)	EPA Region 3,6,9 RSL Residential Soil - THQ=1.0 (USEPA 5/18)	EPA Region 3,6,9 RSL Industrial Soil - THQ=1.0 (USEPA 5/18)	CO GW Protection Values (GPV) - Soil Leachate Reference (CDPHE 3/14)						
		a	b	c	d						
Parameters	**Units**										
Metals											
Arsenic	mg/kg	--	11*	35*	--	3.5	5.1	4.8	10.5	4.1	5.5
Lead	mg/kg	--	400	800	--	--	--	--	--	--	--
Metals - TCLP											
Lead	mg/L	--	--	--	1.1	--	--	--	--	--	--
PAHs											
1,3,5-Trimethylbenzene	mg/kg	23	270	1500	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	0.81	18	73	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	1000	1.1	21	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1000	0.11	2.1	--	0.426 J[b]	0.452 J[b]	0.462 J[b]	0.835[b]	0.377 J[b]	0.421 J[b]
Benzo(b)fluoranthene	mg/kg	1000	1.1	21	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	1000	0.11	2.1	--	--	--	--	0.28 J[b]	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	1000	1.1	21	--	--	--	--	--	--	--

Footnotes:

J Estimated concentration.

* BRMMP and Arsenic Concentrations in Soil - Risk management guidance for evaluating (CDPHE 7/14)

Exceeds CO GW Protection Values (GPV) Soil GW Protection (CDPHE 3/14)

Exceeds EPA Region 3,6,9 RSL Residential Soil THQ = 1.0 (USEPA 5/18)

Exceeds EPA Region 3,6,9 RSL Residential Soil and Industrial Soil THQ = 1.0 (USEPA 5/18)

Exceeds CO GW Protection Values (GPV) - Soil Leachate Reference (CDPHE 3/14)

Exceeds CO GW Protection Values, EPA 3,6,9 RSL Residential Soil and Industrial Soil THQ=1.0

Sample		DA4665-1	DA4665-2	DA4665-28	DA4665-3	DA4665-4	DA4665-5	DA4665-6	DA4665-7	DA4665-8	DA4715-1	DA4715-2
Client_ID		CSB-ML10-0'-0.5'	CSB-ML10-0.5'-1.0'	CSB-ST14D-0'-0.5'	CSB-ML13-0'-0.5'	CSB-ML13-0.5'-1.0'	CSB-ST13-0'-0.5'	CSB-ST13-0.5'-1.0'	CSB-ST14-0'-0.5'	CSB-ST14-0.5'-1.0'	CSB-ST15-0'-0.5'	CSB-ST15-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/25/2018	4/25/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	22.4[b]	5.7	5	4.1	5.2	6.3	9.3	4	6.1	6.2	7.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.447 J[b]	--	--	0.161[b]	--	--	0.141[b]	0.193[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA4715-27	DA4715-3	DA4715-4	DA4715-5	DA4715-6	DA4715-7	DA4715-8	DA4815-1	DA4815-17	DA4815-2
Client_ID		CSB-ML20D-0.5'-1.0'	CSB-ML22-0'-0.5'	CSB-ML22-0.5'-1.0'	CSB-ML20-0'-0.5'	CSB-ML20-0.5'-1.0'	CSB-ML18-0'-0.5'	CSB-ML18-0.5'-1.0'	CSB-ML19-0'-0.5'	CSB-ML21D-0.5'-1,0'	CSB-ML19-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1
Date Collected		4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/30/2018	4/30/2018	4/30/2018
Parameters	**Units**										
Metals											
Arsenic	mg/kg	6.9	6.8	7.9	5.6	7.4	6.4	12.3[b]	3.7	2.7	3.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--
Metals - TCLP											
Lead	mg/L	--	--	--	--	--	--	--	--	--	--
PAHs											
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.111[b]	--	0.131[b]	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA4815-3	DA4815-4	DA4854-1	DA4854-2	DA4854-26	DA4854-3	DA4854-4	DA4854-5	DA4854-6	DA5044-1	DA5044-14
Client_ID		CSB-ML21-0'-0.5'	CSB-ML21-0.5'-1.0'	CSB-ML29-0'-0.5'	CSB-ML29-0.5'-1.0'	CSB-ST19D-0'-0.5'	CSB-ST19-0'-0.5'	CSB-ST19-0.5'-1.0'	CSB-ST20-0'-0.5'	CSB-ST20-0.5'-1.0'	CSB-ML28-0'-0.5'	CSB-ML28D-0'- 0.5'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5
Date Collected		4/30/2018	4/30/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/3/2018	5/3/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	2.6	2.9	10.5	10	6.5	7.3	8.1	4.9	6.8	6.6	9.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	0.168[b]	0.242[b]	0.137[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5044-2	DA5077-1	DA5077-18	DA5077-2	DA5077-3	DA5077-4	DA5077-5	DA5077-6	DA5089-1	DA5089-2	DA5132-1
Client_ID		CSB-ML28-0.5'-1.0'	CSB-ML26-0'0.5'	CSB-ML30D-0'-0.5'	CSB-ML26-0.5'-1.0'	CSB-ML32-0'0.5'	CSB-ML32-0.5'-1.0'	CSB-ML30-0'-0.5'	CSB-ML30-0.5'-1.0'	CSB-ML5-0'-0.5'	CSB-ML5-0.5'-1.0'	CSB-ML3-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		5/3/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/7/2018	5/7/2018	5/8/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.7	4.7	2.6	4.7	2.6	3	2.8	3.6	14.8[b]	4.5	4.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.361[b]	0.918[b]	--	0.475[b]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	1.73[b]	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	0.117[b]	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5132-2	DA5132-3	DA5132-4	DA5132-5	DA5132-6	DA5204-1	DA5204-10	DA5204-11	DA5204-12	DA5204-13	DA5204-14
Client_ID		CSB-ML3-0.5'-1.0'	CSB-ML9-0'-0.5'	CSB-ML9-0.5'-1.0'	CSB-ML11-0'-0.5'	CSB-ML11-0.5'-1.0'	CSB-ML12-0'-0.5'	CSB-ST10-0.5'-1.0'	CSB-ST5-0'-0.5'	CSB-ST5-0.5'-1.0'	CSB-ST7-0'-0.5'	CSB-ST7-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.1	5.4	5.1	5.4	4.1	4.6	9.9	9.3	5.6	4.5	7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	0.126[b]	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5204-15	DA5204-16	DA5204-17	DA5204-18	DA5204-2	DA5204-3	DA5204-4	DA5204-5	DA5204-6	DA5204-7	DA5204-8
Client_ID		CSB-ST4-0'-0.5'	CSB-ST4-0.5'-1.0'	CSB-ST11-0'-0.5'	CSB-ST11-0.5'-1.0'	CSB-ML12-0.5'-1.0'	CSB-ML17-0'-0.5'	CSB-ML17-0.5'-1.0'	CSB-ML7-0'-0.5'	CSB-ML7-0.5'-1.0'	CSB-ML8-0'-0.5'	CSB-ML8-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.8	7.3	6.6	3.9	3.9	4.2	4.7	6	4	5.7	4.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	0.242[b]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5204-9	DA5265-1	DA5265-10	DA5265-11	DA5265-12	DA5265-13	DA5265-14	DA5265-15	DA5265-16	DA5265-17	DA5265-18
Client_ID		CSB-ST10-0'-0.5'	CSB-ST17-0'-0.5'	CSB-ST16-0.5'-1.0'	CSB-ML15-0'-0.5'	CSB-ML15-0.5'-1.0'	CSB-ML14-0'-0.5'	CSB-ML14-0.5'-1.0'	CSB-ML16-0'-0.5'	CSB-ML16-0.5'-1.0'	CSB-ST8-0'-0.5'	CSB-ST8-0.5'-1.0'
Depth (ft BGS)		0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/9/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.6	7.4	16.2[b]	5.1	5.1	14[b]	14.3[b]	6.8	6.5	17[b]	44[bc]
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.289[b]	0.743[b]	0.37[b]	--	0.178[b]	0.133[b]	--	0.248[b]	--	0.16[b]	0.151[b]
Benzo(b)fluoranthene	mg/kg	--	1.73[b]	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	0.137[b]	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5265-19	DA5265-2	DA5265-20	DA5265-21	DA5265-22	DA5265-3	DA5265-4	DA5265-5	DA5265-52	DA5265-6	DA5265-7
Client_ID		CSB-ML45-0'-0.5'	CSB-ST17-0.5'-1.0'	CSB-ML45-0.5'-1.0'	CSB-ML47-0'-0.5'	CSB-ML47-0.5'-1.0'	CSB-ST18-0'-0.5'	CSB-ST18-0.5'-1.0'	CSB-ML1-0'-0.5'	CSB-ST12D-0'-0.5'	CSB-ML1-0.5'-1.0'	CSB-ST12-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5
Date Collected		5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	10.9	7.2	17.6[b]	12.5[b]	14.2[b]	5.7	8.3	6.9	6	15.4[b]	6.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.398[b]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5265-8	DA5265-9	DA5291-1	DA5291-10	DA5291-11	DA5291-12	DA5291-2	DA5291-3	DA5291-4	DA5291-49	DA5291-5
Client_ID		CSB-ST12-0.5'-1.0'	CSB-ST16-0'-0.5'	CSB-ML31-0'-0.5'	CSB-ST24-0.5'-1.0'	CSB-ST25-0'-0.5'	CSB-ST25-0.5'-1.0'	CSB-ML31-0.5'-1.0'	CSB-ML33-0'-0.5'	CSB-ML33-0.5'-1.0'	CSB-ML31D-0'-0.5'	CSB-ST104-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5
Date Collected		5/10/2018	5/10/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.9	11.6[b]	5.6	6.9	4.5	3.7	7.5	5.7	5.7	5.6	6.3
Lead	mg/kg	--	--	458[b]	--	--	--	782[b]	--	--	439[b]	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.187[b]	0.412[b]	0.463[b]	--	--	0.144[b]	0.175[b]	--	0.392[b]	0.133[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5291-6	DA5291-7	DA5291-8	DA5291-9	DA5306-1	DA5306-18	DA5306-2	DA5306-3	DA5306-4	DA5333-1	DA5333-2
Client_ID		CSB-ST104-0.5'-1.0'	CSB-ST22-0'-0.5'	CSB-ST22-0.5'-1.0'	CSB-ST24-0'-0.5'	CSB-ML35-0'-0.5'	CSB-ST27D-0.5'-1.0'	CSB-ML35-0.5'-1.0'	CSB-ST27-0'-0.5'	CSB-ST27-0.5'-1.0'	CSB-ST23-0'-0.5'	CSB-ST23-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/15/2018	5/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	8.5	3.5	3.5	5.4	5.9	4.6	7.1	4	4.3	4.1	3.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	1.41[b]	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.201[b]	--	0.112[b]	1.48[b]	0.134[b]	--	--	--	0.121[b]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	1.75[b]	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	0.189[b]	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5333-3	DA5333-4	DA5333-5	DA5333-6	DA5333-7	DA5333-8	DA5403-1	DA5403-2	DA5403-3	DA5403-4	DA5403-5
Client_ID		CSB-ML41-0'-0.5'	CSB-ML41-0.5'-1.0'	CSB-ML39-0'-0.5'	CSB-ML39-0.5'-1.0'	CSB-ST28-0'-0.5'	CSB-ST28-0.5'-1.0'	CSB-ML37-0'-0.5'	CSB-ML37-0.5'-1.0'	CSB-ML38-0'-0.5'	CSB-ML38-0.5'-1.0'	CSB-ML40-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.5	5.1	5	4.2	4.5	6.2	23.4[b]	6.7	5.7	4.9	4.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	39.9[a]	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	3.17[a]	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	0.136[b]	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5403-6	DA5473-1	DA5473-10	DA5473-2	DA5473-3	DA5473-4	DA5473-5	DA5473-6	DA5473-7	DA5473-8	DA5473-9
Client_ID		CSB-ML40-0.5'-1.0'	CSB-ML44-0'-0.5'	CSB-ML59-0.5'-1.0'	CSB-ML44-0.5'-1.0'	CSB-ML49-0'-0.5'	CSB-ML49-0.5'-1.0'	CSB-ST30-0'-0.5'	CSB-ST30-0.5'-1.0'	CSB-ST9-0'-0.5'	CSB-ST9-0.5'-1.0'	CSB-ML59-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.3	4	4.8	4.2	5	17[b]	6.5	12.4[b]	5	4.1	4.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	0.123[b]	0.117[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5534-1	DA5534-10	DA5534-2	DA5534-3	DA5534-4	DA5534-5	DA5534-6	DA5534-7	DA5534-8	DA5534-9	DA5570-1
Client_ID		CSB-ML60-0'-0.5'	CSB-ST53-0.5'-1.0'	CSB-ML60-0.5'-1.0'	CSB-ML61-0'-0.5'	CSB-ML61-0.5'-1.0'	CSB-ML62-0'-0.5'	CSB-ML62-0.5'-1.0'	CSB-ML72-0'-0.5'	CSB-ML72-0.5'-1.0'	CSB-ST53-0'-0.5'	CSB-ST54-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5
Date Collected		5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/22/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.7	3.7	5.2	4.6	5.3	4.7	5.1	3.4	3.6	3.8	2.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.299[b]	--	--	--	0.199[b]	--	0.249[b]	0.171[b]	0.232[b]	0.441[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5570-2	DA5618-1	DA5618-10	DA5618-11	DA5618-12	DA5618-2	DA5618-3	DA5618-4	DA5618-5	DA5618-6	DA5618-7
Client_ID		CSB-ST54-0.5'-1.0'	CSB-ST47-0'-0.5'	CSB-ML74-0.5'-1.0'	CSB-ML58-0'-0.5'	CSB-ML58-0.5'-1.0'	CSB-ST47-0.5'-1.0'	CSB-ST50-0'-0.5'	CSB-ST50-0.5'-1.0'	CSB-ML52-0'-0.5'	CSB-ML52-0.5'-1.0'	CSB-ML67-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		5/22/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	4.2	3.2	4.5	4.3	6.2	3	5.3	4.3	4.9	3
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.371[b]	0.176[b]	0.196[b]	--	--	--	0.257[b]	--	0.161[b]	--	0.195[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5618-8	DA5618-9	DA5657-1	DA5657-10	DA5657-2	DA5657-3	DA5657-4	DA5657-5	DA5657-6	DA5657-7	DA5657-8
Client_ID		CSB-ML67-0.5'-1.0'	CSB-ML74-0'-0.5'	CSB-ML76-0'-0.5'	CSB-ML77-0.5'-1.0'	CSB-ML76-0.5'-1.0'	CSB-ST56-0'-0.5'	CSB-ST56-0.5'-1.0'	CSB-ML51-0'-0.5'	CSB-ML51-0.5'-1.0'	CSB-ML55-0'-0.5'	CSB-ML55-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/23/2018	5/23/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.6	3.5	4	4.1	4.8	5.1	4.1	4.1	4.4	4.6	5.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.154[b]	0.293[b]	--	--	--	0.216[b]	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J Estimat
* BRMMF
Exceed
Exceed
Exceed
Exceed
Exceed

Sample		DA5657-9	DA5670-1	DA5670-2	DA5670-3	DA5670-4	DA5692-1	DA5692-2	DA5692-3	DA5692-4	DA5692-5	DA5692-6
Client_ID		CSB-ML77-0'-0.5'	CSB-ML46-0'-0.5'	CSB-ML46-0.5'-1.0'	CSB-ML34-0'-0.5'	CSB-ML34-0.5'-1.0'	CSB-ML36-0'-0.5'	CSB-ML36-0.5'-1.0'	CSB-ML53-0'-0.5'	CSB-ML53-0.5'-1.0'	CSB-ML71-0'-0.5'	CSB-ML71-0.5'-1.0'
Depth (ft BGS)		0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/24/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4	6.4	7.9	3.3	3.6	4.8	5.2	4.8	5.1	3.6	5.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.186[b]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5692-7	DA5692-8	DA5734-1	DA5734-10	DA5734-2	DA5734-3	DA5734-4	DA5734-5	DA5734-6	DA5734-7	DA5734-8
Client_ID		CSB-ST27-1-0'-0.5'	CSB-ST27-1-0.5'-1.0'	CSB-ST59-0'-0.5'	CSB-ML84-0.5'-1.0'	CSB-ST59-0.5'-1.0'	CSB-ST60-0'-0.5'	CSB-ST60-0.5'-1.0'	CSB-ST62-0'-0.5'	CSB-ST62-0.5'-1.0'	CSB-ST52-0'-0.5'	CSB-ST52-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/16/2018	5/16/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.4	3.8	3.6	4	5.4	3.8	3.8	4.3	3.8	3.1	3.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.2[b]	--	--	--	--	--	0.143[b]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5734-9	DA5786-1	DA5786-2	DA5786-3	DA5786-4	DA5786-5	DA5786-6	DA5786-7	DA5786-8	DA5836-1	DA5836-2
Client_ID		CSB-ML84-0'-0.5'	CSB-ML80-0.5'-1.0'	CSB-ML80-0'-0.5'	CSB-ML82-0'-0.5'	CSB-ML82-0.5'-1.0'	CSB-ST64-0'-0.5'	CSB-ST64-0.5'-1.0'	CSB-ST66-0'-0.5'	CSB-ST66-0.5'-1.0'	CSB-ML86-0'-0.5'	CSB-ML86-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		5/29/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/31/2018	5/31/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.2	4.3	4.8	4.9	4.3	4.3	3.5	4.1	4.2	4.9	4.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5836-3	DA5836-4	DA5836-5	DA5836-6	DA5865-1	DA5865-10	DA5865-11	DA5865-12	DA5865-13	DA5865-14	DA5865-15
Client_ID		CSB-ML90-0'-0.5'	CSB-ML90-0.5'-1.0'	CSB-ML93-0'-0.5'	CSB-ML93-0.5'-1.0'	CSB-ML88-0'-0.5'	CSB-ML81-0.5'-1.0'	CSB-ML83-0'-0.5'	CSB-ML83-0.5'-1.0'	CSB-ML75-0'-0.5'	CSB-ML75-0.5'-1.0'	CSB-ML73-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		5/31/2018	5/31/2018	5/31/2018	5/31/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.4	4.5	5.1	4.7	5.8	4.3	4.5	6.9	6.9	4.8	4.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	1.73[b]	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	3.22[bc]	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	4.09[b]	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	0.407[b]	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	1.79[b]	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5865-16	DA5865-2	DA5865-3	DA5865-4	DA5865-5	DA5865-6	DA5865-7	DA5865-8	DA5865-9	DA5891-1	DA5891-10
Client_ID		CSB-ML73-0.5'-1.0'	CSB-ML88-0.5'-1.0'	CSB-ST67-0'-0.5'	CSB-ST67-0.5'-1.0'	CSB-ST77-0'-0.5'	CSB-ST77-0.5'-1.0'	CSB-ST69-0'-0.5'	CSB-ST69-0.5'-1.0'	CSB-ML81-0'-0.5'	CSB-ML68-0'-0.5'	CSB-ST63-0.5'-1.0'
Depth (ft BGS)		0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1
Date Collected		6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/4/2018	6/4/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.6	5.2	6.5	3.3	5.5	4.4	6.1	6	5.2	3.6	4.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	1.72[b]	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	3.54[bc]	0.266[b]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	5.68[b]	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	0.531[b]	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	2.47[b]	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5891-11	DA5891-12	DA5891-13	DA5891-14	DA5891-15	DA5891-16	DA5891-2	DA5891-3	DA5891-4	DA5891-5	DA5891-6
Client_ID		CSB-ML57-0'-0.5'	CSB-ML57-0.5'-1.0'	CSB-ST65-0'-0.5'	CSB-ST65-0.5'-1.0'	CSB-ML78-0'-0.5'	CSB-ML78-0.5'-1.0'	CSB-ML68-0.5'-1.0'	CSB-ML69-0'-0.5'	CSB-ML69-0.5'-1.0'	CSB-ML79-0'-0.5'	CSB-ML79-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	3.6	3.1	3.7	6.6	9.5	3.7	3.4	4.1	3.9	5.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	**0.252**[b]	**0.175**[b]	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5891-7	DA5891-8	DA5891-9	DA5933-1	DA5933-10	DA5933-11	DA5933-12	DA5933-13	DA5933-14	DA5933-15	DA5933-16
Client_ID		CSB-ST61-0'-0.5'	CSB-ST61-0.5'-1.0'	CSB-ST63-0'-0.5'	CSB-ST27-6-0'-0.5'	CSB-ST42-0.5'-1.0'	CSB-ST51-0'-0.5'	CSB-ST51-0.5'-1.0'	CSB-ST55-0'-0.5'	CSB-ST55-0.5'-1.0'	CSB-ML56-0'-0.5'	CSB-ML56-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		6/4/2018	6/4/2018	6/4/2018	5/23/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.4	5.5	3.8	5.2	11.6[b]	5.9	6.4	4	5.1	4	4.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	0.31[b]	0.14[b]	--	--	--	0.115[b]	0.148[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5933-2	DA5933-3	DA5933-4	DA5933-5	DA5933-6	DA5933-7	DA5933-8	DA5933-9	DA5995-1	DA5995-2	DA5995-3
Client_ID		CSB-ST27-6-0.5'-1.0'	CSB-ST35-0'-0.5'	CSB-ST35-0.5'-1.0'	CSB-ST37-0'-0.5'	CSB-ST37-0.5'-1.0'	CSB-ML54-0'-0.5'	CSB-ML54-0.5'-1.0'	CSB-ST42-0'-0.5'	CSB-ML66-0'-0.5'	CSB-ML66-0.5'-1.0'	CSB-ML70-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5
Date Collected		5/23/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/6/2018	6/6/2018	6/6/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.5	6.2	6.4	5.4	5	4.4	3.6	7.6	4.7	4.9	<12
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	0.211[b]	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA5995-4	DA5995-5	DA5995-6	DA6056-1	DA6056-10	DA6056-11	DA6056-12	DA6056-13	DA6056-14	DA6056-15	DA6056-16
Client_ID		CSB-ML70-0.5'-1.0'	CSB-ST57-0'-0.5'	CSB-ST57-0.5'-1.0'	CSB-ST38-0'-0.5'	CSB-ST34-0.5'-1.0'	CSB-ST74-0'-0.5'	CSB-ST74-0.5'-1.0'	CSB-ST76-0'-0.5'	CSB-ST76-0.5'-1.0'	CSB-ML48-0'-0.5'	CSB-ML48-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		6/6/2018	6/6/2018	6/6/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<12	4.7	4.7	<13	<12	<13	<13	<13	<13	<13	<13
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	2.97[b]	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	1.06[b]	3.45[bc]	0.227[b]	--	0.131[b]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	1.39[b]	4.9[b]	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	0.113[b]	0.361[b]	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	1.4[b]	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6056-2	DA6056-3	DA6056-4	DA6056-5	DA6056-50	DA6056-54	DA6056-55	DA6056-6	DA6056-7	DA6056-8	DA6056-9
Client_ID		CSB-ST38-0.5'-1.0'	CSB-ST39-0'-0.5'	CSB-ST39-0.5'-1.0'	CSB-ST41-0'-0.5'	CSB-ML48D-0.5'-1.0'	CSB-ST26-3-0'-0.5'	CSB-ST26-3-0.5'-1.0'	CSB-ST41-0.5'-1.0'	CSB-ST79-0'-0.5'	CSB-ST79-0.5'-1.0'	CSB-ST34-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	5/24/2018	5/24/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<13	3.3	<13	<13	<13	4	<13	<12	<13	<13	<12
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	**0.157**[b]	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6116-1	DA6116-10	DA6116-11	DA6116-12	DA6116-2	DA6116-3	DA6116-4	DA6116-5	DA6116-6	DA6116-7	DA6116-8
Client_ID		CSB-ST36-0'-0.5'	CSB-ST29-0.5'-1.0'	CSB-ST32-0'-0.5'	CSB-ST32-0.5'-1.0'	CSB-ST36-0.5'-1.0'	CSB-ST58-0'-0.5'	CSB-ST58-0.5'-1.0'	CSB-ML65-0'-0.5'	CSB-ML65-0.5'-1.0'	CSB-ML50-0'-0.5'	CSB-ML50-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.5	7.5	4.4	4.7	5.6	5.4	5.4	4	4.2	9.9	8.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	0.165[b]	--	--	0.123[b]	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6116-9	DA6238-1	DA6238-10	DA6238-2	DA6238-3	DA6238-4	DA6238-5	DA6238-6	DA6238-7	DA6238-8	DA6238-9
Client_ID		CSB-ST29-0'-0.5'	CSB-ST73-0'-0.5'	CSB-ST97-0.5'-1.0'	CSB-ST73-0.5'-1.0'	CSB-ST78-0'-0.5'	CSB-ST78-0.5'-1.0'	CSB-ST72-0'-0.5'	CSB-ST72-0.5'-1.0'	CSB-ST98-0'-0.5'	CSB-ST98-0.5'-1.0'	CSB-ST97-0'-0.5'
Depth (ft BGS)		0-0.5	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		6/11/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.2	16.9[b]	3.3	18.7[b]	8.2	4.1	5.5	4.2	4.5	4.1	4.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	3.24[b]	--	2.18[b]	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	4.28[bc]	--	2.92[bc]	--	--	0.633[b]	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	6.35[b]	--	4.27[b]	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	0.544[b]	--	0.412[b]	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	2.42[b]	--	1.88[b]	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6295-1	DA6295-2	DA6295-3	DA6295-4	DA6295-5	DA6295-6	DA6338-1	DA6338-2	DA6338-3	DA6338-4	DA6338-5
Client_ID		CSB-ST91-0'-0.5'	CSB-ST91-0.5'-1.0'	CSB-ML99-0'-0.5'	CSB-ML99-0.5'-1.0'	CSB-ST81-0'-0.5'	CSB-ST81-0.5'-1.0'	CSB-ST48-0'-0.5'	CSB-ST48-0.5'-1.0'	CSB-ST49-0'-0.5'	CSB-ST49-0.5'-1.0'	CSB-ST33-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.6	4	3.8	4.5	4.5	4.6	4.8	4	4.8	5.6	5.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6338-6	DA6338-7	DA6338-8	DA6399-1	DA6399-10	DA6399-11	DA6399-12	DA6399-13	DA6399-14	DA6399-2	DA6399-3
Client_ID		CSB-ST33-0.5'-1.0'	CSB-ST40-0'-0.5'	CSB-ST40-0.5'-1.0'	CSB-ST75-0'-0.5'	CSB-ST88-0.5'-1.0'	CSB-ST71-0'-0.5'	CSB-ST71-0.5'-1.0'	CSB-ST80-0'-0.5'	CSB-ST80-0.5'-1.0'	CSB-ST75-0.5'-1.0'	CSB-ST82-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5
Date Collected		6/15/2018	6/15/2018	6/15/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.7	3.3	3.2	5.2	5	5.3	5.7	4	4.3	6.6	4.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.147[b]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6399-4	DA6399-5	DA6399-6	DA6399-7	DA6399-8	DA6399-9	DA6456-1	DA6456-10	DA6456-11	DA6456-12	DA6456-2
Client_ID		CSB-ST82-0.5'-1.0'	CSB-ST83-0'-0.5'	CSB-ST83-0.5'-1.0'	CSB-ST90-0'-0.5'	CSB-ST90-0.5'-1.0'	CSB-ST88-0'-0.5'	CSB-ST89-0'-0.5'	CSB-ST101-0.5'-1.0'	CSB-ST70-0'-0.5'	CSB-ST70-0.5'-1.0'	CSB-ST89-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1
Date Collected		6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.1	6.4	4.8	4.3	4.5	6.2	7.1	5.9	7.6	7.9	7.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	0.141[b]	0.179[b]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6456-3	DA6456-4	DA6456-5	DA6456-6	DA6456-7	DA6456-8	DA6456-9	DA6506-1	DA6506-2	DA6506-3	DA6506-4
Client_ID		CSB-ST92-0'-0.5'	CSB-ST92-0.5'-1.0'	CSB-ST95-0'-0.5'	CSB-ST95-0.5'-1.0'	CSB-ST100-0'-0.5'	CSB-ST100-0.5'-1.0'	CSB-ST101-0'-0.5'	CSB-ML63-0'-0.5'	CSB-ML63-0.5'-1.0'	CSB-ST45-0'-0.5'	CSB-ST45-0.5'-1.0'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	8.5	6.5	7.2	7	6.1	5.5	6.2	5	6.1	4.3	4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	2.21[b]	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	0.16[b]	--	2.51[bc]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	3.34[b]	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	0.245[b]	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6506-5	DA6506-6	DA6506-7	DA6506-8	DA6570-1	DA6570-2	DA6606-1	DA6606-2	DA6606-3	DA6606-4	DA6668-1
Client_ID		CSB-ST43-0'-0.5'	CSB-ST43-0.5'-1.0'	CSB-ST44-0'-0.5'	CSB-ST44-0.5'-1.0'	CSB-ST84-0'-0.5'	CSB-ST84-0.5'-1.0'	CSB-ST85-0'-0.5'	CSB-ST85-0.5'-1.0'	CSB-ST86-0'-0.5'	CSB-ST86-0.5'-1.0'	CSB-ST68-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/25/2018	6/25/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/27/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	5.7	3.1	8	5.2	5.9	3.7	4.5	4	4	5.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.138[b]	--	--	--	--	--	--	--	--	0.115[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6668-2	DA6668-3	DA6668-4	DA6716-1	DA6716-10	DA6716-2	DA6716-24	DA6716-3	DA6716-4	DA6716-5	DA6716-6
Client_ID		CSB-ST68-0.5'-1.0'	CSB-ST98-0'-0.5'	CSB-ST98-0.5'-1.0'	CSB-ST87-0'-0.5'	CSB-ST99-0.5'-1.0'	CSB-ST87-0.5'-1.0'	CSB-ST96D-0'-0.5'	CSB-ST93-0'-0.5'	CSB-ST93-0.5'-1.0'	CSB-ST94-0'-0.5'	CSB-ST94-0.5'-1.0'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1
Date Collected		6/27/2018	6/27/2018	6/27/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.7	3.9	4.2	5.2	5.2	4.9	2.7	5.6	<2.5	4.3	4.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.13[b]	0.122[b]	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6716-7	DA6716-8	DA6716-9	DA6926-1	DA6926-2	DA6926-24	DA6926-3	DA6926-4	DA6965-1	DA6965-2	DA6965-3
Client_ID		CSB-ST96-0'-0.5'	CSB-ST96-0.5'-1.0'	CSB-ST99-0'-0.5'	CSB-ML43-0'-0.5'	CSB-ML43-0.5'-1.0'	CSB-ML42D-0'-0.5'	CSB-ML42-0'-0.5'	CSB-ML42-0.5'-1.0'	CSB-ML25-0'-0.5'	CSB-ML25-0.5'-1.0'	CSB-ST21-0'-0.5'
Depth (ft BGS)		0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		6/28/2018	6/28/2018	6/28/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/10/2018	7/10/2018	7/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.9	5.4	4.7	3.6	4.1	4.4	4	4.2	64.4[bc]	26.3[b]	14.1[b]
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	0.205[b]	0.251[b]	0.184[b]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6965-4	DA7077-1	DA7077-2	DA7077-3	DA7077-3	DA7077-4	DA7341-1	DA7341-2	DA7494-1	DA7494-2	DA7575-1
Client_ID		CSB-ST21-0.5'-1.0'	CSB-ML24-0'-0.5'	CSB-ML24-0.5'-1.0'	CSB-ML27-0'-0.5'	CSB-ML27-0'-0.5'	CSB-ML27-0.5'-1.0'	CSB-ST31-0'-0.5'	CSB-ST31-0.5'-1.0'	CSB-ML6-0'-0.5'	CSB-ML6-0.5'-1.0'	CSB-ML23-0'-0.5'
Depth (ft BGS)		0.5-1	0-0.5	0.5-1	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5
Date Collected		7/10/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/23/2018	7/23/2018	7/26/2018	7/26/2018	7/30/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	51[bc]	12.2[b]	13.5[b]	66.6[bc]	--	42.7[bc]	<2.5	<2.5	<2.7	<2.8	<2.7
Lead	mg/kg	--	--	--	--	433[b]	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.256[b]	340[bc]	--	--	556[bc]	121[bc]	--	--	--	--	117[bc]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	1660[abc]	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA7575-2	DA7575-3	DA7575-4	DA7575-4R	DA7575-5	DA7575-5R	DA7823-20	DA7823-21	DA7823-22	DA7823-23	DA7970-1
Client_ID		CSB-ML23-0.5'-1.0'	CSB-EN-148-0'-1.0'	CSB-EN-150-0'-1.0'	CSB-EN-150-0'-1.0'	CSB-EN-152-0'-1.0'	CSB-EN-152-0'-1.0'	CSB-ES-171-0'-1'	CSB-ES-169-0'-1'	CSB-ES-170-0'-1'	CSB-ES-172-0'-1'	CSB-ES-147-0'-1'
Depth (ft BGS)		0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0-1	0-1	0-1	0-1	0-1
Date Collected		7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	7/30/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/9/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.6	3.8	<12	--	<12	--	3.2	3.2	3.1	7.2	4.2
Lead	mg/kg	--	--	631[b]	--	554[b]	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	2.6[d]	--	1.5[d]	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	282[bc]	283[bc]	--	260[bc]	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA7970-10	DA7970-11	DA7970-12	DA7970-13	DA7970-14	DA7970-15	DA7970-16	DA7970-2	DA7970-3	DA7970-4	DA7970-5
Client_ID		CSB-ES-165-0'-1'	CSB-ES-167-0'-1'	CSB-EN-154-0'-1'	CSB-EN-156-0'-1'	CSB-EN-158-0'-1'	CSB-EN-160-0'-1'	CSB-EN-154D-0'-1'	CSB-ES-149-0'-1'	CSB-ES-151-0'-1'	CSB-ES-153-0'-1'	CSB-ES-155-0'-1'
Depth (ft BGS)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Date Collected		8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/9/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.3	2.9	<2.6	2.5	2.4	3.4	<2.4	3.4	3	3.3	<2.4
Lead	mg/kg	--	--	--	--	--	--	--	--	412[b]	--	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	117[bc]	--	--	243[bc]	202[bc]	--	440[bc]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA7970-6	DA7970-7	DA7970-8	DA7970-9	DA8005-1	DA8005-2	DA8005-3	DA8005-4	DA8005-5	DA8005-6	DA8199-11
Client_ID		CSB-ES-157-0'-1'	CSB-ES-159-0'-1'	CSB-ES-161-0'-1'	CSB-ES-163-0'-1'	CSB-ST108-0'-0.5'	CSB-ST108-0.5'-1.0'	CSB-ST109-0'-0.5'	CSB-ST109-0.5'-1.0'	CSB-ST110-0'-0.5'	CSB-ST110-0.5'-1.0'	CSB-EN-216-0'-1'
Depth (ft BGS)		0-1	0-1	0-1	0-1	0-0.5	0.5-1	0-0.5	0.5-1	0-0.5	0.5-1	0-1
Date Collected		8/9/2018	8/9/2018	8/9/2018	8/9/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/16/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.4	<2.6	3.4	3.4	7.9	24.6[b]	19.7[b]	5.7	3.3	20.7[b]	3.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	414[b]	--
Metals - TCLP												
Lead	mg/L	--	--	--	--	--	--	--	--	--	--	--
PAHs												
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	118[bc]	--	--	--	250[bc]	--	320[bc]	402[bc]	--	515[bc]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA8199-12	DA8224-3	DA8224-4	DA8224-5	DA8224-6	DA8439-1	DA8439-2	DA8439-4	DA8653-2	DA8653-5
Client_ID		CSB-EN-218-0'-1'	CSB-EN-162-0'-1'	CSB-EN-164-0'-1'	CSB-EN-166-0'-1'	CSB-EN-168-0'-1'	CSB-ES-235-0'-1'	CSB-ES-237-0'-1'	CSB-EN-223-0'-1'	CSB-EN-146-0'-1'	CSB-ES-239-0'-1'
Depth (ft BGS)		0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1	0-1
Date Collected		8/16/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018	8/22/2018	8/22/2018	8/22/2018	8/29/2018	8/29/2018
Parameters	**Units**										
Metals											
Arsenic	mg/kg	3.5	5.8	2.8	3.4	5.9	4.4	5.3	4.1	9.8	9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--
Metals - TCLP											
Lead	mg/L	--	--	--	--	--	--	--	--	--	--
PAHs											
1,3,5-Trimethylbenzene	mg/kg	--	--	--	--	--	--	--	--	--	--
1-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--

Footnotes:

J	Estimat
*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed
	Exceed

Sample						DA4635-10	DA4635-11	DA4635-12	DA4635-13	DA4635-14	DA4635-15
Client_ID						CSB-ST1-8-1'-5'	CSB-ST2-1-1'-5'	CSB-ST2-2-1'-5'	CSB-ST2-4-1'-5'	CSB-ST2-7-1'-5'	CSB-ST2-9-1'-5'
Depth (ft BGS)						1-5	1-5	1-5	1-5	1-5	1-5
Date Collected						4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018
		CO GW Protection Values (GPV) - Soil GW Protection (CDPHE 3/14)	CO GW Protection Values (GPV) - Soil Leachate Reference (CDPHE 3/14)	EPA Region 3,6,9 RSL Residential Soil - THQ=1.0 (USEPA 5/18)	EPA Region 3,6,9 RSL Industrial Soil - THQ=1.0 (USEPA 5/18)						
		a	b	c	d						
Parameters	**Units**										
Metals											
Arsenic	mg/kg	--	--	11*	35*	4.2	6.4	9.7	3.9	4.3	5.9
Lead	mg/kg	--	--	400	800	--	--	--	--	--	--
Metals - TCLP											
Lead	mg/l	--	1.1	--	--	--	--	--	--	--	--
PAHs											
Benzo(a)anthracene	mg/kg	1000	--	1.1	21	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1000	--	0.11	2.1	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	1000	--	1.1	21	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	1000	--	0.11	2.1	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	1000	--	1.1	21	--	--	--	--	--	--

Footnotes:

* BRMMP and Arsenic Concentrations in Soil - Risk management guidance for evaluating (CDPHE 7/14)

Exceeds CO GW Protection Values (GPV) Soil GW Protection (CDPHE 3/14)

Exceeds CO GW Protection Values (GPV) - Soil Leachate Reference (CDPHE 3/14)

Exceeds EPA Region 3,6,9 RSL Residential Soil THQ = 1.0 (USEPA 5/18)

Exceeds EPA Region 3,6,9 RSL Residential Soil and Industrial Soil THQ = 1.0 (USEPA 5/18)

Sample		DA4635-16	DA4635-17	DA4635-18	DA4635-19	DA4635-20	DA4635-21	DA4635-7	DA4635-8	DA4635-9	DA4665-10	DA4665-11	DA4665-12
Client_ID		CSB-ST3-1-1'-5'	CSB-ST3-3-1'-5'	CSB-ST3-5-1'-5'	CSB-ST3-7-1'-5'	CSB-ST3-9-1'-5'	CSB-ST3-7D-1'-5'	CSB-ST1-1-1'-5'	CSB-ST1-3-1'-5'	CSB-ST1-5-1'-5'	CSB-ML10-4-1'-5'	CSB-ML10-6-1'-5'	CSB-ML10-8-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/23/2018	4/24/2018	4/24/2018	4/24/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	5.6	5.5	8.3	6.6	7.5	4.3	3.3	16.7[c]	5.6	3.7	5.8	6.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA4665-13	DA4665-14	DA4665-15	DA4665-16	DA4665-17	DA4665-18	DA4665-19	DA4665-20	DA4665-21	DA4665-22	DA4665-23
Client_ID		CSB-ML10-9-1'-5'	CSB-ML13-1-1'-5'	CSB-ML13-4-1'-5'	CSB-ML13-5-1'-5'	CSB-ML13-8-1'-5'	CSB-ST13-1-1'-5'	CSB-ST13-2-1'-5'	CSB-ST13-4-1'-5'	CSB-ST13-6-1'-5'	CSB-ST13-8-1'-5'	CSB-ST14-1-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.2	4.5	5	4.8	3.9	14.4[c]	6.4	42.4[cd]	9.5	5.3	8.9
Lead	mg/kg	--	--	--	--	--	--	--	1000[cd]	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.157[c]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA4665-24	DA4665-25	DA4665-26	DA4665-27	DA4665-9	DA4715-10	DA4715-11	DA4715-11R	DA4715-12	DA4715-13	DA4715-14
Client_ID		CSB-ST14-3-1'-5'	CSB-ST14-5-1'-5'	CSB-ST14-7-1'-5'	CSB-ST14-9-1'-5'	CSB-ML10-3-1'-5'	CSB-ST15-4-1'-5'	CSB-ST15-6-1'-5'	CSB-ST15-6-1'-5'	CSB-ST15-9-1'-5'	CSB-ML22-2-1'-5'	CSB-ML22-4-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/24/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.5	4.2	11.6[c]	3.1	5.2	14.8[c]	180[cd]	--	6.3	5	5.3
Lead	mg/kg	--	--	--	--	--	--	1450[cd]	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	12[b]	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	0.128[c]	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA4715-15	DA4715-16	DA4715-17	DA4715-18	DA4715-19	DA4715-20	DA4715-21	DA4715-22	DA4715-23	DA4715-24	DA4715-25
Client_ID		CSB-ML22-8-1'-5'	CSB-ML22-6-1'-5'	CSB-ML22-6-5'-10'	CSB-ML20-1-1'-5'	CSB-ML20-5-1'-5'	CSB-ML20-7-1'-5'	CSB-ML20-3-1'-5'	CSB-ML20-9-1'-5'	CSB-ML18-8-1'-5'	CSB-ML18-4-1'-5'	CSB-ML18-2-1'-5'
Depth (ft BGS)		1-5	1-5	5-10	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018	4/25/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.8	6.8	2.7	5.5	6	6.4	5.9	4	6.8	3.6	9.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.144[c]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

*	BRMMF
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	Exceed

Sample		DA4715-26	DA4715-9	DA4815-10	DA4815-11	DA4815-12	DA4815-13	DA4815-14	DA4815-15	DA4815-16	DA4815-5	DA4815-6
Client_ID		CSB-ML18-6-1'-5'	CSB-ST15-2-1'-5'	CSB-ML21-4-1'-5'	CSB-ML21-6-1'-5'	CSB-ML21-8-1'-5'	CSB-ML30-5-1'-5'	CSB-ML30-5-5'-10'	CSB-ST17-1-1'-5'	CSB-ST17-1-5'-10'	CSB-ML19-3-1'-5'	CSB-ML19-5-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	5-10	1-5	5-10	1-5	1-5
Date Collected		4/25/2018	4/25/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018	4/30/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.8	9	4.1	<2.4	<2.4	5.3	2.8	7.1	5.7	2.7	4.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	0.178[c]	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

*	BRMMF
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	Exceed

Sample		DA4815-7	DA4815-8	DA4815-9	DA4854-10	DA4854-11	DA4854-12	DA4854-13	DA4854-14	DA4854-15	DA4854-16	DA4854-17
Client_ID		CSB-ML19-7-1'-5'	CSB-ML19-9-1'-5'	CSB-ML21-2-1'-5'	CSB-ML29-5-1'-5'	CSB-ML29-7-1'-5'	CSB-ST19-1-1'-5'	CSB-ST19-3-1'-5'	CSB-ST19-5-1'-5'	CSB-ST19-7-1'-5'	CSB-ST19-9-1'-5'	CSB-ML32-2-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		4/30/2018	4/30/2018	4/30/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.5	5.1	<2.4	4.8	6.2	3.1	3.9	5.7	3	3.1	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA4854-18	DA4854-19	DA4854-20	DA4854-21	DA4854-22	DA4854-23	DA4854-24	DA4854-25	DA4854-7	DA4854-8	DA4854-9
Client_ID		CSB-ML32-8-1'-5'	CSB-ST20-1-1'-5'	CSB-ST20-2-1'-5'	CSB-ST20-4-1'-5'	CSB-ST20-6-1'-5'	CSB-ST20-8-1'-5'	CSB-ML31-2-1'-5'	CSB-ST18-4-1'-5'	CSB-ML29-1-1'-5'	CSB-ML29-3-1'-5'	CSB-ML29-3-5'-10'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-10
Date Collected		5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018	5/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4	3.7	3	2.9	4.8	6.1	3.6	6.5	8.8	5	4.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA4906-10	DA4906-11	DA4906-12	DA4906-13	DA4906-14	DA4906-15	DA4906-16	DA4906-17	DA4906-18	DA4906-19	DA4906-20
Client_ID		CSB-ML26-8-1'-5'	CSB-ML28-5-1'-5'	CSB-ML28-9-1'-5'	CSB-ML30-3-1'-5'	CSB-ML30-6-1'-5'	CSB-ML30-9-1'-5'	CSB-ML31-8-1'-5'	CSB-ST17-3-1'-5'	CSB-ML32-3-1'-5'	CSB-ML32-6-1'-5'	CSB-ML32-9-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/2/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.6	<2.5	<2.5	3.1	<2.5	<2.5	6.7	<2.4	2.6	<2.6	3.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	0.22[c]	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA4906-24	DA4906-7	DA4906-8	DA4906-9	DA5044-10	DA5044-11	DA5044-12	DA5044-13	DA5044-3	DA5044-4	DA5044-5
Client_ID		CSB-ML32D-9-1'-5'	CSB-ML26-2-1'-5'	CSB-ML26-4-1'-5'	CSB-ML26-6-1'-5'	CSB-ML19-8-5'-10'	CSB-ML21-3-1'-5'	CSB-ML21-7-1'-5'	CSB-ST18-2-1'-5'	CSB-ML28-2-1'-5'	CSB-ML28-2-5'-10'	CSB-ML28-2-10'-15'
Depth (ft BGS)		1-5	1-5	1-5	1-5	5-10	1-5	1-5	1-5	1-5	5-10	10-15
Date Collected		5/2/2018	5/2/2018	5/2/2018	5/2/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/3/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.6	12.2[c]	<2.5	<2.4	7.2	7.2	18[c]	6.1	3.6	4.5	<2.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA5044-6	DA5044-7	DA5044-8	DA5044-9	DA5077-10	DA5077-11	DA5077-12	DA5077-13	DA5077-14	DA5077-15	DA5077-17	DA5077-7
Client_ID		CSB-ML28-3-1'-5'	CSB-ML28-8-1'-5'	CSB-ML19-1-1'-5'	CSB-ML19-8-1'-5'	CSB-ML3-7-1'-5'	CSB-ML5-1-1'-5'	CSB-ML5-2-1'-5'	CSB-ML19-4-1'-5'	CSB-ML19-4-5'-10'	CSB-ST12-1-1'-5'	CSB-ST12-4-1'-5'	CSB-ML1-2-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-10	1-5	1-5	1-5
Date Collected		5/3/2018	5/3/2018	5/3/2018	5/3/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	6.5	6.6	4.6	7.3	3.9	3.4	10.2	9	<2.6	8.1	2.9	3.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	0.257[c]	--	0.221[c]	--	0.24[c]	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA5077-8	DA5077-9	DA5089-10	DA5089-11	DA5089-12	DA5089-13	DA5089-14	DA5089-15	DA5089-16	DA5089-17	DA5089-18	DA5089-19
Client_ID		CSB-ML1-6-1'-5'	CSB-ML3-1-1'-5'	CSB-ST16-4-1'-3'	CSB-ST16-4-3'-5'	CSB-ML5-4-1'-5'	CSB-ML5-7-1'-5'	CSB-ML5-9-1'-5'	CSB-ML11-2-1'-5'	CSB-ML11-2-5'-10'	CSB-ML11-8-1'-5'	CSB-ML12-3-1'-5'	CSB-ML3D-5-1'-5'
Depth (ft BGS)		1-5	1-5	1-3	3-5	1-5	1-5	1-5	1-5	5-10	1-5	1-5	1-5
Date Collected		5/4/2018	5/4/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.9	3.5	10.5	5.5	3.3	4.4	<2.5	4.7	4	5.1	3.4	3.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.164[c]	0.166[c]	--	0.345[c]	--	--	--	--	--	--	0.121[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA5089-3	DA5089-4	DA5089-5	DA5089-6	DA5089-7	DA5089-8	DA5089-9	DA5132-10	DA5132-11	DA5132-12	DA5132-13	DA5132-14
Client_ID		CSB-ML1-5-1'-5'	CSB-ML3-5-1'5'	CSB-ML9-8-1'5'	CSB-ST12-3-1'3'	CSB-ST12-3-3'5'	CSB-ST16-2-1'3'	CSB-ST16-2-3'5'	CSB-ML9-3-1'-5'	CSB-ML9-3-5'-10'	CSB-ML9-5-1'-5'	CSB-ML9-6-1'-5'	CSB-ML11-4-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-3	3-5	1-3	3-5	1-5	5-10	1-5	1-5	1-5
Date Collected		5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	5.7	3.2	4.5	5.8	6.4	9.8	5.9	4	4.9	2.7	3.3	3.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	0.195[c]	0.557[c]	0.176[c]	--	--	--	0.67[c]	--	--	0.355[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA5132-15	DA5132-16	DA5132-17	DA5132-18	DA5132-19	DA5132-20	DA5132-21	DA5132-22	DA5132-23	DA5132-24	DA5132-25
Client_ID		CSB-ML11-4-5'-7'	CSB-ML11-6-1'-5'	CSB-ML11-6-5'-7'	CSB-ML12-1-1'-5'	CSB-ML12-1-5'-7'	CSB-ML12-5-1'-5'	CSB-ML12-9-1'-5'	CSB-ML15-1-1'-5'	CSB-ML15-3-1'-5'	CSB-ML15-5-1'-5'	CSB-ML15-9-1'-5'
Depth (ft BGS)		5-7	1-5	5-7	1-5	5-7	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.5	4.6	3.3	4.7	5.9	9.8	4.5	3.4	5	3.1	3.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.144[c]	--	0.232[c]	--	0.19[c]	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5132-26	DA5132-27	DA5132-28	DA5132-29	DA5132-30	DA5132-31	DA5132-7	DA5132-8	DA5132-9	DA5204-19	DA5204-20	DA5204-21
Client_ID		CSB-ST9-3-1'-3'	CSB-ST9-3-3'-5'	CSB-ML17-4-1'-5'	CSB-ML17-6-1'-5'	CSB-ML17-6-5'-7'	CSB-ML11D-4-1'-5'	CSB-ML7-6-1'-5'	CSB-ML7-9-1'-5'	CSB-ML9-1-1'-5'	CSB-ST4-1-1'-3'	CSB-ST4-1-3'-5'	CSB-ST4-3-1'-3'
Depth (ft BGS)		1-3	3-5	1-5	1-5	5-7	1-5	1-5	1-5	1-5	1-3	3-5	1-3
Date Collected		5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/8/2018	5/9/2018	5/9/2018	5/9/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.6	9.5	**15.1**[c]	3.2	5.8	3.9	8.3	4.5	3.6	4.2	5.6	9.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	**0.282**[c]	--	--	--	--	--	--	--	**0.18**[c]	**0.182**[c]	**0.134**[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5204-22	DA5204-23	DA5204-24	DA5204-25	DA5204-26	DA5204-27	DA5204-28	DA5204-29	DA5204-30	DA5204-31	DA5204-32	DA5204-33
Client_ID		CSB-ST4-3-3'-5'	CSB-ST5-1-1'-3'	CSB-ST5-1-3'-5'	CSB-ST5-2-1'-3'	CSB-ST5-2-3'-5'	CSB-ST5-3-1'-3'	CSB-ST5-3-3'-5'	CSB-ST8-1-1'-3'	CSB-ST8-1-3'-5'	CSB-ST7-2-1'-3'	CSB-ST7-2-3'-5'	CSB-ST7-4-1'-3'
Depth (ft BGS)		3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3
Date Collected		5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	10	5.3	<2.6	4.6	2.7	6.5	4.2	28[c]	23.9[c]	8.8	6.4	8.1
Lead	mg/kg	--	--	--	--	--	--	--	--	655[c]	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	0.139[c]	--	--	--	0.12[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5204-34	DA5204-35	DA5204-36	DA5204-37	DA5204-38	DA5204-39	DA5204-40	DA5204-41	DA5204-42	DA5204-43	DA5204-44	DA5204-45
Client_ID		CSB-ST7-4-3'-5'	CSB-ML7-1-1'-5'	CSB-ML7-4-1'-5'	CSB-ML8-2-1'-5'	CSB-ML8-8-1'-5'	CSB-ML8-4-1'-5'	CSB-ML8-6-1'-5'	CSB-ST10-2-1'-3'	CSB-ST10-2-3'-5'	CSB-ST10-4-1'-3'	CSB-ST10-4-3'-5'	CSB-ST11-2-1'-3'
Depth (ft BGS)		3-5	1-5	1-5	1-5	1-5	1-5	1-5	1-3	3-5	1-3	3-5	1-3
Date Collected		5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	11.9[c]	7.2	6	6.2	3.5	5.1	3.1	9.4	6.2	3.9	3.6	18.5[c]
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	528[c]
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.643[c]	0.268[c]	0.354[c]	--	--	--	--	0.158[c]	--	--	--	0.113[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5204-46	DA5204-47	DA5204-48	DA5204-49	DA5204-50	DA5204-51	DA5204-52	DA5204-53	DA5265-23	DA5265-24	DA5265-25
Client_ID		CSB-ST11-2-3'-5'	CSB-ML17-2-1'-5'	CSB-ML17-2-5'-7'	CSB-ML17-9-1'-5'	CSB-ML17-9-5'-10'	CSB-ML12-7-1'-5'	CSB-ML17D-2-1'-5'	CSB-ML17D-9-1'-5'	CSB-ML14-3-1'-5'	CSB-ML14-4-1'-5'	CSB-ML14-7-1'-5'
Depth (ft BGS)		3-5	1-5	5-7	1-5	5-10	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/9/2018	5/10/2018	5/10/2018	5/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.1	2.9	3.7	6.2	3.3	4.3	3.5	8.2	4.4	8.1	3.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5265-26	DA5265-27	DA5265-28	DA5265-29	DA5265-30	DA5265-31	DA5265-32	DA5265-33	DA5265-34	DA5265-35	DA5265-36
Client_ID		CSB-ML14-8-1'-5'	CSB-ML15-7-1'-5'	CSB-ML16-2-1'-5'	CSB-ML16-2-5'-10'	CSB-ML16-4-1'-5'	CSB-ML16-4-5'-10'	CSB-ML16-6-1'-5'	CSB-ML16-6-5'-10'	CSB-ML16-8-1'-5'	CSB-ML16-8-5'-10'	CSB-ML16-8-10'-15'
Depth (ft BGS)		1-5	1-5	1-5	5-10	1-5	5-10	1-5	5-10	1-5	5-10	10-15
Date Collected		5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.3	4.1	5.1	6.8	11	3	4.7	<2.6	4	4.2	2.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5265-37	DA5265-38	DA5265-39	DA5265-40	DA5265-41	DA5265-42	DA5265-43	DA5265-44	DA5265-45	DA5265-46	DA5265-47
Client_ID		CSB-ML45-2-1'-5'	CSB-ML45-4-1'-5'	CSB-ML45-6-1'-5'	CSB-ML45-8-1'-5'	CSB-ML45-8-5'-10'	CSB-ML45-8-10'-15'	CSB-ML47-1-1'-5'	CSB-ML47-3-1'-5'	CSB-ML47-5-1'-5'	CSB-ML47-7-1'-5'	CSB-ML47-9-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	5-10	10-15	1-5	1-5	1-5	1-5	1-5
Date Collected		5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.9	4.7	6	6.6	5.5	4.6	4.2	3.8	6.6	12[c]	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5265-48	DA5265-49	DA5265-50	DA5265-51	DA5265-53	DA5291-13	DA5291-14	DA5291-15	DA5291-16	DA5291-17	DA5291-18
Client_ID		CSB-ST8-3-1'-3'	CSB-ST8-3-3'-5'	CSB-ML45D-2-1'-5'	CSB-ML45D-8-1'-5'	CSB-ML14D-3-1'-5'	CSB-ST22-3-1'-3'	CSB-ST22-3-3'-5'	CSB-ST22-1-1'-3'	CSB-ST22-1-3'-5'	CSB-ST104-2-1'-3'	CSB-ST104-2-3'-5'
Depth (ft BGS)		1-3	3-5	1-5	1-5	1-5	1-3	3-5	1-3	3-5	1-3	3-5
Date Collected		5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/10/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	9.2	8.1	3.6	5	4.2	3.7	5.3	3.8	3	5.9	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.486[c]	--	--	--	--	--	--	0.304[c]	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5291-19	DA5291-20	DA5291-21	DA5291-22	DA5291-23	DA5291-24	DA5291-25	DA5291-26	DA5291-27	DA5291-28	DA5291-29
Client_ID		CSB-ST104-4-1'-3'	CSB-ST104-4-3'-5'	CSB-ML31-5-1'-5'	CSB-ML33-1-1'-5'	CSB-ML33-3-1'-5'	CSB-ML33-5-1'-5'	CSB-ML33-7-1'-5'	CSB-ML33-8-1'-5'	CSB-ML34-1-1'-5'	CSB-ML34-3-1'-5'	CSB-ML35-4-1'-5'
Depth (ft BGS)		1-3	3-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	11.5[c]	4.2	5.6	4	6.7	4	4.3	2.9	2.9	3.3	3.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.157[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5291-30	DA5291-31	DA5291-32	DA5291-33	DA5291-34	DA5291-35	DA5291-36	DA5291-37	DA5291-38	DA5291-39	DA5291-40	DA5291-41
Client_ID		CSB-ST24-2-1'-3'	CSB-ST24-2-3'-5'	CSB-ST24-4-1'-3'	CSB-ST24-4-3'-5'	CSB-ST23-1-1'-3'	CSB-ST23-1-3'-5'	CSB-ST23-2-1'-3'	CSB-ST23-2-3'-5'	CSB-ST21-1-1'-5'	CSB-ST25-1-1'-3'	CSB-ST25-1-3'-5'	CSB-ST27-4-1'-3'
Depth (ft BGS)		1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-5	1-3	3-5	1-3
Date Collected		5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	6	4.1	4.4	5	3.6	6.9	4.3	3.7	6.4	3.3	3.4	3.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	1.66[c]	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.122[c]	--	--	--	--	1.22[c]	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	1.45[c]	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	0.2[c]	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5291-42	DA5291-43	DA5291-44	DA5291-45	DA5291-46	DA5291-47	DA5291-48	DA5306-10	DA5306-11	DA5306-12	DA5306-13
Client_ID		CSB-ST27-4-3'-5'	CSB-ST27-8-1'-5'	CSB-ST28-1-1'-5'	CSB-ST28-3-1'-5'	CSB-ST28-3-5'-10'	CSB-ST28-3-10'-15'	CSB-ML33D-3-1'-5'	CSB-ML36-6-1'-5'	CSB-ST23-4-1'-3'	CSB-ST23-4-3'-5'	CSB-ST27-2-1'-5'
Depth (ft BGS)		3-5	1-5	1-5	1-5	5-10	10-15	1-5	1-5	1-3	3-5	1-5
Date Collected		5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/11/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.3	4.9	6.8	3.9	5	2.7	6.3	4	4.4	5.6	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.273[c]	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Exceed

Sample		DA5306-14	DA5306-15	DA5306-16	DA5306-17	DA5306-19	DA5306-5	DA5306-6	DA5306-7	DA5306-8	DA5306-9	DA5333-10
Client_ID		CSB-ST28-5-1'-5'	CSB-ST28-5-5'-7'	CSB-ST28-6-1'-5'	CSB-ST28-8-1'-5'	CSB-ST28D-5-1'-5'	CSB-ML35-2-1'-5'	CSB-ML35-6-1'-5'	CSB-ML35-8-1'-5'	CSB-ML36-2-1'-5'	CSB-ML36-5-1'-5'	CSB-ML39-1-5'-7'
Depth (ft BGS)		1-5	5-7	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-7
Date Collected		5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/14/2018	5/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4	4.9	5.1	5.7	3.3	3.9	4.1	4.6	4.1	4.1	3.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.774[c]	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	0.12[c]	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5333-11	DA5333-12	DA5333-13	DA5333-14	DA5333-15	DA5333-16	DA5333-17	DA5333-18	DA5333-19	DA5333-20	DA5333-21
Client_ID		CSB-ML39-5-1'-5'	CSB-ML39-4-1'-5'	CSB-ML39-4-5'-7'	CSB-ML39-8-1'-5'	CSB-ML41-1-1'-5'	CSB-ML41-1-5'-10'	CSB-ML41-3-1'-5'	CSB-ML41-4-1'-5'	CSB-ML41-7-1'-5'	CSB-ML41-8-1'-5'	CSB-ML41-8-5'-10'
Depth (ft BGS)		1-5	1-5	5-7	1-5	1-5	5-10	1-5	1-5	1-5	1-5	5-10
Date Collected		5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.5	4.9	4.5	3.6	5.9	2.8	3.6	3.4	3.3	5	3
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	0.264[c]	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5333-22	DA5333-23	DA5333-24	DA5333-25	DA5333-26	DA5333-27	DA5333-28	DA5333-29	DA5333-30	DA5333-31	DA5333-32
Client_ID		CSB-ML37-1-1'-5'	CSB-ML37-9-1'-5'	CSB-ML37-7-1'-5'	CSB-ST30-1-1'-5'	CSB-ML37-5-1'-5'	CSB-ML34-6-1'-5'	CSB-ML38-2-1'-5'	CSB-ML38-6-1'-5'	CSB-ML38-8-1'-5'	CSB-ST26-1-1'-5'	CSB-ML38D-6-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018	5/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	3.7	4.2	16.2[c]	4.9	3.5	3.3	5.2	3.1	4.9	4.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5333-33	DA5333-34	DA5333-9	DA5403-10	DA5403-11	DA5403-12	DA5403-13	DA5403-14	DA5403-15	DA5403-16	DA5403-17
Client_ID		CSB-ML41D-8-1'-5'	CSB-ML37D-9-1'-5'	CSB-ML39-1-1'-5'	CSB-ML46-2-1'-5'	CSB-ML46-6-1'-5'	CSB-ML46-9-1'-5'	CSB-ML46-5-1'-5'	CSB-ML46-5-5'-10'	CSB-ML46-5-10'-12'	CSB-ML49-1-1'-5'	CSB-ML49-4-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-10	10-12	1-5	1-5
Date Collected		5/15/2018	5/15/2018	5/15/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.6	4.1	4.7	4.2	7.2	2.7	3.4	4.6	3	4.7	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5403-18	DA5403-19	DA5403-20	DA5403-21	DA5403-22	DA5403-23	DA5403-24	DA5403-25	DA5403-26	DA5403-27	DA5403-28
Client_ID		CSB-ML49-8-1'-5'	CSB-ML49-8-5'-7'	CSB-ML40-1-1'-5'	CSB-ML40-1-5'-8'	CSB-ML40-3-1'-5'	CSB-ML40-5-1'-5'	CSB-ML40-7-1'-5'	CSB-ML40-7-5'-9'	CSB-ML40-9-1'-5'	CSB-ML51-4-1'-5'	CSB-ML51-4-5'-7'
Depth (ft BGS)		1-5	5-7	1-5	5-8	1-5	1-5	1-5	5-9	1-5	1-5	5-7
Date Collected		5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.9	3.7	6.2	2.8	5.4	3.7	4.2	3.8	6.3	5.7	3.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5403-29	DA5403-30	DA5403-31	DA5403-32	DA5403-33	DA5403-34	DA5403-35	DA5403-36	DA5403-37	DA5403-38	DA5403-39
Client_ID		CSB-ML51-1-1'-5'	CSB-ML51-1-5'-7'	CSB-ML51-3-1'-5'	CSB-ML51-3-5'-7'	CSB-ML44-3-1'-5'	CSB-ML44-6-1'-5'	CSB-ML44-6-5'-8'	CSB-ML44-7-1'-5'	CSB-ML44-7-5'-8'	CSB-ML44-9-1'-5'	CSB-ML40D-5-1'-5'
Depth (ft BGS)		1-5	5-7	1-5	5-7	1-5	1-5	5-8	1-5	5-8	1-5	1-5
Date Collected		5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.6	3.4	4.9	4.9	4.2	4.7	5.9	3.9	4	3.6	3.3
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5403-40	DA5403-7	DA5403-8	DA5403-9	DA5473-11	DA5473-12	DA5473-13	DA5473-14	DA5473-15	DA5473-16	DA5473-17
Client_ID		CSB-ML51D-3-1'-5'	CSB-ST30-3-1'-3'	CSB-ST30-3-3'-5'	CSB-ML38-4-1'-5'	CSB-ML44-2-1'-5'	CSB-ML44-2-5'-7'	CSB-ML49-5-1'-5'	CSB-ML51-7-1'-5'	CSB-ML51-7-5'-7'	CSB-ML60-3-1'-5'	CSB-ML60-5-1'-5'
Depth (ft BGS)		1-5	1-3	3-5	1-5	1-5	5-7	1-5	1-5	5-7	1-5	1-5
Date Collected		5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.8	3.9	3.6	3.4	2.8	2.5	5	3.9	3.3	4	3.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5473-18	DA5473-19	DA5473-20	DA5473-21	DA5473-22	DA5473-23	DA5473-24	DA5473-25	DA5473-26	DA5473-27	DA5473-28
Client_ID		CSB-ML60-9-1'-5'	CSB-ML62-2-1'-5'	CSB-ML62-6-1'-5'	CSB-ML62-7-1'-5'	CSB-ST30-4-1'-3'	CSB-ST30-4-3'-5'	CSB-ST30-4-5'-7'	CSB-ST30-4-7'-9'	CSB-ML59-2-1'-5'	CSB-ML59-4-1'-5'	CSB-ML59-6-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-3	3-5	5-7	7-9	1-5	1-5	1-5
Date Collected		5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	3.9	3.8	2.9	4.4	4.7	5.5	3.2	3.8	3.7	3.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	0.166[c]	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5473-29	DA5473-30	DA5473-30R	DA5473-31	DA5473-32	DA5473-33	DA5534-11	DA5534-12	DA5534-13	DA5534-14	DA5534-15
Client_ID		CSB-ML59-8-1'-5'	CSB-ST9-1-1'-3'	CSB-ST9-1-1'-3'	CSB-ST9-1-3'-5'	CSB-ML49D-5-1'-5'	CSB-ML60D-9-1'-5'	CSB-ML58-7-1'-5'	CSB-ML58-8-1'-5'	CSB-ML60-1-1'-5'	CSB-ML60-7-1'-5'	CSB-ML61-2-1'-5'
Depth (ft BGS)		1-5	1-3	1-3	3-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.1	23.8[c]	--	6	4.1	3.9	5.7	5.5	3.7	4.9	4.3
Lead	mg/kg	--	1200[cd]	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	1.8[b]	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.344[c]	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5534-16	DA5534-17	DA5534-18	DA5534-19	DA5534-20	DA5534-21	DA5534-22	DA5534-23	DA5534-24	DA5534-25	DA5534-26
Client_ID		CSB-ML61-3-1'-5'	CSB-ML61-6-1'-5'	CSB-ML61-8-1'-5'	CSB-ML62-4-1'-5'	CSB-ML67-6-1'-5'	CSB-ML67-6-5'-9'	CSB-ST53-2-1'-3'	CSB-ST53-2-3'-5'	CSB-ST53-2-5'-7'	CSB-ST53-4-1'-3'	CSB-ST53-4-3'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	5-9	1-3	3-5	5-7	1-3	3-5
Date Collected		5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.9	4.6	6.5	3.3	4.6	3.5	4	4.8	3.7	<2.6	2.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5534-27	DA5534-28	DA5534-29	DA5534-30	DA5534-31	DA5534-32	DA5534-33	DA5534-34	DA5534-35	DA5534-36	DA5534-37
Client_ID		CSB-ML72-2-1'-5'	CSB-ML72-4-1'-5'	CSB-ML72-6-1'-5'	CSB-ML72-8-1'-5'	CSB-ML74-2-1'-5'	CSB-ML74-4-1'-5'	CSB-ML74-6-1'-5'	CSB-ST54-1-1'-5'	CSB-ST54-4-1'-3'	CSB-ST54-4-3'-5'	CSB-ML60D-1-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-3	3-5	1-5
Date Collected		5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018	5/21/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	2.8	3	2.7	2.9	2.9	2.7	3.6	2.5	3.8	3.2	3.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5534-38	DA5534-39	DA5570-10	DA5570-11	DA5570-12	DA5570-13	DA5570-14	DA5570-15	DA5570-16	DA5570-17	DA5570-18
Client_ID		CSB-ML72D-4-1'-5'	CSB-ML72D-6-1'-5'	CSB-ML67-9-1'-5'	CSB-ML71-2-1'-5'	CSB-ML71-2-5'-7'	CSB-ML71-6-1'-5'	CSB-ST33-2-1'-3'	CSB-ST33-2-3'-5'	CSB-ST47-3-1'-3'	CSB-ST47-3-3'-5'	CSB-ST50-4-10'-13'
Depth (ft BGS)		1-5	1-5	1-5	1-5	5-7	1-5	1-3	3-5	1-3	3-5	10-13
Date Collected		5/21/2018	5/21/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	2.7	3.2	5.5	5	3.3	4.4	4.4	3.4	7	4.1	4.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA5570-19	DA5570-20	DA5570-21	DA5570-22	DA5570-23	DA5570-24	DA5570-25	DA5570-26	DA5570-27	DA5570-3	DA5570-4
Client_ID		CSB-ST50-4-1'-5'	CSB-ST50-4-5'-10'	CSB-ST50-8-1'-5'	CSB-ST52-1-1'-5'	CSB-ST52-3-1'-5'	CSB-ST52-7-1'-5'	CSB-ST52-8-1'-5'	CSB-ML67D-9-1'-5'	CSB-ML55D-6-1'-5'	CSB-ST52-4-1'-5'	CSB-ML54-7-1'-5'
Depth (ft BGS)		1-5	5-10	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.8	4.2	5.2	5.6	5.9	3.6	2.9	5.3	2.9	3.5	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.135[c]	--	--	--	--	0.358[c]	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5570-5	DA5570-6	DA5570-7	DA5570-8	DA5570-9	DA5618-13	DA5618-14	DA5618-15	DA5618-16	DA5618-17	DA5618-18
Client_ID		CSB-ML55-4-1'-5'	CSB-ML55-6-1'-5'	CSB-ML56-6-1'-5'	CSB-ML57-3-1'-5'	CSB-ML67-8-1'-5'	CSB-ML52-2-1'-5'	CSB-ML52-4-1'-5'	CSB-ML52-6-1'-5'	CSB-ML52-8-1'-5'	CSB-ML53-1-1'-5'	CSB-ML53-3-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/22/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.8	3.4	2.9	3.2	6	3.6	3.7	5.2	5.8	3.4	4.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5618-19	DA5618-20	DA5618-21	DA5618-22	DA5618-23	DA5618-24	DA5618-25	DA5618-26	DA5618-27	DA5618-28	DA5618-29
Client_ID		CSB-ML53-5-1'-5'	CSB-ML55-8-1'-5'	CSB-ML57-1-1'-5'	CSB-ML57-7-1'-5'	CSB-ML57-7-5'-9'	CSB-ML58-3-1'-5'	CSB-ML58-3-5'-9'	CSB-ML58-4-1'-5'	CSB-ML67-3-1'-5'	CSB-ML67-3-5'-9'	CSB-ML71-8-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	5-9	1-5	5-9	1-5	1-5	5-9	1-5
Date Collected		5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6	4.8	7.5	5.2	6.6	5.6	9.5	4.7	4.3	3.8	4.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	**0.407**[c]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5618-30	DA5618-31	DA5618-32	DA5618-33	DA5618-34	DA5618-35	DA5618-36	DA5618-37	DA5618-38	DA5618-39	DA5657-11
Client_ID		CSB-ML74-8-1'-5'	CSB-ST27-6-1'-5'	CSB-ST47-2-1'-3'	CSB-ST47-2-3'-5'	CSB-ST50-1-1'-5'	CSB-ST50-5-1'-5'	CSB-ST50-5-5'-7'	CSB-ST27D-6-1'-5'	CSB-ST50D-1-1'-5'	CSB-ML58-4-5'-9'	CSB-ML51-8-1'-5'
Depth (ft BGS)		1-5	1-5	1-3	3-5	1-5	1-5	5-7	1-5	1-5	5-9	1-5
Date Collected		5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/23/2018	5/24/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.6	3.3	4	3.3	4.1	5.1	4.3	2.8	3.3	11.9[c]	2.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	0.167[c]	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5657-12	DA5657-13	DA5657-14	DA5657-15	DA5657-16	DA5657-17	DA5657-18	DA5657-19	DA5657-20	DA5657-21	DA5657-22
Client_ID		CSB-ML53-7-1'-5'	CSB-ML55-2-1'-5'	CSB-ML57-5-1'-5'	CSB-ML76-1-1'-5'	CSB-ML76-2-1'-5'	CSB-ML76-5-1'-5'	CSB-ML76-6-1'-5'	CSB-ML76-9-1'-5'	CSB-ML77-2-1'-5'	CSB-ML77-3-1'-5'	CSB-ML77-6-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5	5	5.7	2.8	3	5.3	4.2	2.7	3.8	3.8	4.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5657-23	DA5657-24	DA5657-25	DA5657-26	DA5657-27	DA5657-28	DA5657-29	DA5657-30	DA5657-31	DA5657-32	DA5657-33
Client_ID		CSB-ML77-7-1'-5'	CSB-ML77-9-1'-5'	CSB-ML79-2-1'-5'	CSB-ML79-4-1'-5'	CSB-ML79-4-5'-10'	CSB-ML79-9-1'-5'	CSB-ST56-2-1'-3'	CSB-ST56-2-3'-5'	CSB-ST56-4-1'-3'	CSB-ST56-4-3'-5'	CSB-ML79D-9-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	5-10	1-5	1-3	3-5	1-3	3-5	1-5
Date Collected		5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018	5/24/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.1	6.6	3.1	4.4	3.3	11.4[c]	<2.6	3	5.3	4.3	4.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.168[c]	--	--	--	--	--	--	0.223[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5657-34	DA5692-10	DA5692-11	DA5692-12	DA5692-13	DA5692-14	DA5692-15	DA5692-16	DA5692-17	DA5692-18	DA5692-19
Client_ID		CSB-ML76D-1-1'-5'	CSB-ST26-3-3'-5'	CSB-ML53-9-1'-5'	CSB-ML68-3-1'-5'	CSB-ML68-9-1'-5'	CSB-ML69-6-1'-5'	CSB-ML71-4-1'-5'	CSB-ML73-3-1'-5'	CSB-ML73-7-1'-5'	CSB-ML75-3-1'-5'	CSB-ML75-7-1'-5'
Depth (ft BGS)		1-5	3-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		5/24/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	2.6	3.6	2.9	3.7	4.4	4.5	4.4	3.5	3.5	3.1	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5692-20	DA5692-21	DA5692-22	DA5692-23	DA5692-24	DA5692-25	DA5692-26	DA5692-9	DA5734-11	DA5734-12	DA5734-13
Client_ID		CSB-ML81-8-1'-5'	CSB-ML83-1-1'-5'	CSB-ML83-5-1'-5'	CSB-ML78-2-1'-5'	CSB-ML78-6-1'-5'	CSB-ML68D-3-1'-5'	CSB-ML83D-1-1'-5'	CSB-ST26-3-1'-3'	CSB-ML80-2-1'-5'	CSB-ML80-3-1'-5'	CSB-ML80-4-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-3	1-5	1-5	1-5
Date Collected		5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/25/2018	5/29/2018	5/29/2018	5/29/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.8	4.2	3.5	4.9	7.8	3.7	4.4	4.3	5.7	3.9	4.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5734-14	DA5734-15	DA5734-16	DA5734-17	DA5734-18	DA5734-19	DA5734-20	DA5734-21	DA5734-22	DA5734-23	DA5734-24
Client_ID		CSB-ML80-4-5'-7'	CSB-ML80-7-1'-5'	CSB-ML80-7-5'-7'	CSB-ML81-2-1'-5'	CSB-ML81-4-1'-5'	CSB-ML82-1-1'-5'	CSB-ST59-1-1'-3'	CSB-ST59-1-3'-5'	CSB-ST59-3-1'-3'	CSB-ST59-3-3'-5'	CSB-ST60-2-1'-3'
Depth (ft BGS)		5-7	1-5	5-7	1-5	1-5	1-5	1-3	3-5	1-3	3-5	1-3
Date Collected		5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3	4	3.9	5	3.7	4	3.4	4	3.7	4.5	5.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5734-25	DA5734-26	DA5734-27	DA5734-28	DA5734-29	DA5734-30	DA5734-31	DA5734-32	DA5734-33	DA5734-34	DA5734-35
Client_ID		CSB-ST60-2-3'-5'	CSB-ST60-4-1'-3'	CSB-ST60-4-3'-5'	CSB-ST62-1-1'-5'	CSB-ST62-1-5'-7'	CSB-ST62-3-1'-5'	CSB-ST62-5-1'-5'	CSB-ML82-5-1'-5'	CSB-ML82-6-1'-5'	CSB-ML82-6-5'-10'	CSB-ML82-6-10'-15'
Depth (ft BGS)		3-5	1-3	3-5	1-5	5-7	1-5	1-5	1-5	1-5	5-10	10-15
Date Collected		5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.2	3.3	2.8	5.2	4	3.5	3	3.6	5	3.5	3.3
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5734-36	DA5734-37	DA5734-38	DA5734-39	DA5734-40	DA5734-41	DA5734-42	DA5734-43	DA5734-44	DA5734-45
Client_ID		CSB-ML82-6-15'-17'	CSB-ML84-6-1'-5'	CSB-ML84-6-5'-9'	CSB-ML84-8-1'-5'	CSB-ML84-8-5'-10'	CSB-ML84-8-10'-15'	CSB-ML82-9-1'-5'	CSB-ML82-9-5'-10'	CSB-ML82-9-10'-15'	CSB-ML82-9-15'-18'
Depth (ft BGS)		15-17	1-5	5-9	1-5	5-10	10-15	1-5	5-10	10-15	15-18
Date Collected		5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018
Parameters	**Units**										
Metals											
Arsenic	mg/kg	4.3	3.8	5.7	3.8	4.2	3.6	4.3	<2.7	<2.9	<2.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--
Metals - TCLP											
Lead	mg/l	--	--	--	--	--	--	--	--	--	--
PAHs											
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5734-46	DA5734-47	DA5734-48	DA5734-49	DA5734-50	DA5734-51	DA5734-52	DA5734-53	DA5734-54	DA5734-55
Client_ID		CSB-ML84-8-15'-17'	CSB-ML84-3-1'-5'	CSB-ML84-3-5'-10'	CSB-ML84-3-10'-15'	CSB-ML84-3-15'-17'	CSB-ML84-5-1'-5'	CSB-ML83-7-1'-5'	CSB-ML84D-3-10'-15'	CSB-ML83D-7-1'-5'	CSB-ML82D-6-1'-5'
Depth (ft BGS)		15-17	1-5	5-10	10-15	15-17	1-5	1-5	10-15	1-5	1-5
Date Collected		5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018	5/29/2018
Parameters	**Units**										
Metals											
Arsenic	mg/kg	<2.5	4.8	2.9	<2.5	<2.6	3.6	3.6	<2.5	3.4	4.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--
Metals - TCLP											
Lead	mg/l	--	--	--	--	--	--	--	--	--	--
PAHs											
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	0.154[c]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5734-56	DA5786-10	DA5786-11	DA5786-12	DA5786-13	DA5786-14	DA5786-15	DA5786-16	DA5786-17	DA5786-18	DA5786-19
Client_ID		CSB-ML80D-3-1'-5'	CSB-ST64-1-3'-5'	CSB-ML80-8-1'-5'	CSB-ML82-4-1'-5'	CSB-ML86-2-1'-5'	CSB-ST64-3-1'-3'	CSB-ST64-3-3'-5'	CSB-ML88-3-1'-5'	CSB-ML88-3-5'-7'	CSB-ML88-7-1'-5'	CSB-ST66-2-1'-3'
Depth (ft BGS)		1-5	3-5	1-5	1-5	1-5	1-3	3-5	1-5	5-7	1-5	1-3
Date Collected		5/29/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.4	3.6	4.7	4.1	3.6	7.5	3.5	4.4	3.5	5.1	3.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5786-20	DA5786-21	DA5786-22	DA5786-23	DA5786-24	DA5786-25	DA5786-26	DA5786-27	DA5786-28	DA5786-29	DA5786-30
Client_ID		CSB-ST66-2-3'-5'	CSB-ST67-3-1'-3'	CSB-ST67-3-3'-5'	CSB-ML86-8-1'-5'	CSB-ML86-8-5'-10'	CSB-ML86-8-10'-15'	CSB-ML86-8-15'-20'	CSB-ML86-8-20'-25'	CSB-ML88-2-1'-5'	CSB-ML88-2-5'-10'	CSB-ML88-2-10'-15'
Depth (ft BGS)		3-5	1-3	3-5	1-5	5-10	10-15	15-20	20-25	1-5	5-10	10-15
Date Collected		5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.2	3.9	4	4.4	6	4.2	<2.5	<2.4	5.3	4.9	<2.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5786-31	DA5786-32	DA5786-33	DA5786-34	DA5786-35	DA5786-36	DA5786-37	DA5786-38	DA5786-39	DA5786-9	DA5836-10
Client_ID		CSB-ML88-2-15'-20'	CSB-ML88-2-20'-25'	CSB-ML88-4-1'-5'	CSB-ML88-4-5'-10'	CSB-ML88-4-10'-15'	CSB-ML88-4-15'-20'	CSB-ML86-6-1'-5'	CSB-ML86D-6-1'-5'	CSB-ML80D-8-1'-5'	CSB-ST64-1-1'-3'	CSB-ML90-3-1'-5'
Depth (ft BGS)		15-20	20-25	1-5	5-10	10-15	15-20	1-5	1-5	1-5	1-3	1-5
Date Collected		5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/31/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.4	<2.6	4.7	3.5	5.8	<2.4	3.2	4.3	4.4	7.9	3.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5836-11	DA5836-12	DA5836-13	DA5836-14	DA5836-15	DA5836-16	DA5836-17	DA5836-18	DA5836-19	DA5836-9	DA5865-17
Client_ID		CSB-ML90-4-1'-5'	CSB-ML90-7-1'-5'	CSB-ML90-8-1'-5'	CSB-ML93-3-1'-5'	CSB-ML93-1-1'-5'	CSB-ML93-4-1'-5'	CSB-ML93-7-1'-5'	CSB-ML93-8-1'-5'	CSB-ML93D-8-1'-5'	CSB-ML86-4-1'-5'	CSB-ST67-1-1'-3'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-3
Date Collected		5/31/2018	5/31/2018	5/31/2018	5/31/2018	5/31/2018	5/31/2018	5/31/2018	5/31/2018	5/31/2018	5/31/2018	6/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.1	3.6	3.6	5.7	5.2	5.5	4.5	4.5	4.8	3.3	4.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5865-18	DA5865-19	DA5865-20	DA5865-21	DA5865-22	DA5865-23	DA5865-24	DA5865-25	DA5865-26	DA5865-27	DA5865-28
Client_ID		CSB-ST67-1-3'-5'	CSB-ST67-4-1'-3'	CSB-ST67-4-3'-5'	CSB-ST69-1-1'-3'	CSB-ST69-1-3'-5'	CSB-ST69-3-1'-3'	CSB-ST69-3-3'-5'	CSB-ST77-4-1'-3'	CSB-ST77-4-3'-5'	CSB-ML88-9-1'-5'	CSB-ML78-9-1'-5'
Depth (ft BGS)		3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-5	1-5
Date Collected		6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.9	3.1	4	4.2	3.3	3.7	4.3	4.8	5.4	3	3
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5865-29	DA5865-30	DA5865-31	DA5865-32	DA5865-33	DA5865-34	DA5865-35	DA5865-36	DA5865-37	DA5865-38	DA5865-39
Client_ID		CSB-ML68-1-1'-5'	CSB-ML68-5-1'-5'	CSB-ML81-6-1'-5'	CSB-ML83-3-1'-5'	CSB-ML83-9-1'-5'	CSB-ML75-2-1'-5'	CSB-ML75-6-1'-5'	CSB-ML75-9-1'-5'	CSB-ML66-7-1'-5'	CSB-ML70-2-1'-5'	CSB-ML70-6-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.8	10	3.7	4.3	4	15.7[c]	3.6	4.3	3.8	4.1	4.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5865-40	DA5865-41	DA5865-42	DA5865-43	DA5891-17	DA5891-18	DA5891-19	DA5891-20	DA5891-21	DA5891-22	DA5891-23
Client_ID		CSB-ML73-1-1'-5'	CSB-ML73-6-1'-5'	CSB-ST77D-4-1'-3'	CSB-ML68D-1-1'-5'	CSB-ML68-7-1'-5'	CSB-ML69-2-1'-5'	CSB-ML69-2-5'-7'	CSB-ML69-4-1'-5'	CSB-ML69-8-1'-5'	CSB-ML69-8-5'-7'	CSB-ST58-4-1'-3'
Depth (ft BGS)		1-5	1-5	1-3	1-5	1-5	1-5	5-7	1-5	1-5	5-7	1-3
Date Collected		6/1/2018	6/1/2018	6/1/2018	6/1/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4	4	3.1	4.3	5.1	4.3	4.1	4.2	6	4.5	4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	2.92[c]	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	3.37[cd]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	3.93[c]	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	0.435[c]	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	1.83[c]	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5891-24	DA5891-25	DA5891-26	DA5891-27	DA5891-28	DA5891-29	DA5891-30	DA5891-31	DA5891-32	DA5891-33	DA5891-34
Client_ID		CSB-ST58-4-3'-5'	CSB-ST61-1-1'-3'	CSB-ST61-1-3'-5'	CSB-ST61-3-1'-3'	CSB-ST61-3-3'-5'	CSB-ST63-1-1'-3'	CSB-ST63-1-3'-5'	CSB-ST63-3-1'-3'	CSB-ST63-3-3'-5'	CSB-ML79-7-1'-5'	CSB-ML79-7-5'-9'
Depth (ft BGS)		3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-5	5-9
Date Collected		6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.2	4.9	3.4	4.8	5	4.9	3.7	3.7	4.4	5.7	7.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	**0.172**[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5891-35	DA5891-36	DA5891-37	DA5891-38	DA5891-39	DA5891-40	DA5891-41	DA5891-42	DA5891-43	DA5891-44	DA5891-45
Client_ID		CSB-ST65-3-1'-3'	CSB-ST65-3-3'-5'	CSB-ST65-3-5'-7'	CSB-ST65-3-7'-9'	CSB-ST65-3-9'-11'	CSB-ST65-3-11'-13'	CSB-ST65-3-13'-15'	CSB-ST65-3-15'-17'	CSB-ST65-3-17'-20'	CSB-ST65-2-1'-3'	CSB-ST65-2-3'-5'
Depth (ft BGS)		1-3	3-5	5-7	7-9	9-11	11-13	13-15	15-17	17-20	1-3	3-5
Date Collected		6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.7	4.3	5.9	4.3	3.4	<2.4	<2.5	2.7	<2.5	3.3	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5891-46	DA5891-47	DA5891-48	DA5891-49	DA5891-50	DA5933-17	DA5933-18	DA5933-19	DA5933-20	DA5933-21	DA5933-22
Client_ID		CSB-ML66-3-1'-5'	CSB-ML66-3-5'-7'	CSB-ML78-5-1'-5'	CSB-ML69D-8-1'-5'	CSB-ST61D-1-3'-5'	CSB-ML54-3-1'-5'	CSB-ML56-2-1'-5'	CSB-ML54-2-1'-5'	CSB-ML54-6-1'-5'	CSB-ML54-9-1'-5'	CSB-ML56-5-1'-5'
Depth (ft BGS)		1-5	5-7	1-5	1-5	3-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/4/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	2.7	<2.6	3.6	3.5	3.2	3.5	3.5	3.6	3.9	3.3	3.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5933-23	DA5933-24	DA5933-25	DA5933-26	DA5933-27	DA5933-28	DA5933-29	DA5933-30	DA5933-31	DA5933-32	DA5933-33
Client_ID		CSB-ML56-9-1'-5'	CSB-ST33-4-1'-3'	CSB-ST33-4-3'-5'	CSB-ST35-2-1'-3'	CSB-ST35-2-3'-5'	CSB-ST35-3-1'-3'	CSB-ST35-3-3'-5'	CSB-ST37-2-1'-3'	CSB-ST37-2-3'-5'	CSB-ST37-3-1'-3'	CSB-ST37-3-3'-5'
Depth (ft BGS)		1-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5
Date Collected		6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	4.7	3.9	5.8	4.1	4.1	3.9	4.5	3.7	4.9	3.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA5933-34	DA5933-35	DA5933-36	DA5933-37	DA5933-38	DA5933-39	DA5933-40	DA5933-41	DA5933-42	DA5933-43	DA5933-44
Client_ID		CSB-ST42-2-1'-3'	CSB-ST42-2-3'-5'	CSB-ST42-4-1'-3'	CSB-ST51-4-1'-3'	CSB-ST55-1-1'-3'	CSB-ST55-1-3'-5'	CSB-ST51-2-1'-3'	CSB-ST55-3-1'-3'	CSB-ST55-3-3'-5'	CSB-ST57-5-1'-3'	CSB-ST57-5-3'-5'
Depth (ft BGS)		1-3	3-5	1-3	1-3	1-3	3-5	1-3	1-3	3-5	1-3	3-5
Date Collected		6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018	6/5/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5	4.7	10.9	4	5.2	4.1	4.2	4.6	3.7	4	3.8
Lead	mg/kg	--	--	424[c]	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Exceed

Sample		DA5933-45	DA5933-46	DA5995-10	DA5995-11	DA5995-12	DA5995-13	DA5995-14	DA5995-15	DA5995-16	DA5995-17	DA5995-18
Client_ID		CSB-ML54D-3-1'-5'	CSB-ML54D-6-1'-5'	CSB-ST38-5-5'-7'	CSB-ST39-1-1'-5'	CSB-ST39-1-5'-9'	CSB-ST39-6-1'-5'	CSB-ST39-6-5'-9'	CSB-ST48-4-1'-3'	CSB-ST48-4-3'-5'	CSB-ST49-3-1'-3'	CSB-ST49-4-1'-3'
Depth (ft BGS)		1-5	1-5	5-7	1-5	5-9	1-5	5-9	1-3	3-5	1-3	1-3
Date Collected		6/5/2018	6/5/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.8	2.9	6	5.8	6.9	3.5	<13	<13	3.3	<13	<12
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.136[c]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5995-19	DA5995-20	DA5995-21	DA5995-22	DA5995-23	DA5995-24	DA5995-25	DA5995-26	DA5995-27	DA5995-28	DA5995-29
Client_ID		CSB-ML66-1-1'-5'	CSB-ML66-6-1'-5'	CSB-ML66-9-1'-5'	CSB-ML70-5-1'-5'	CSB-ML70-9-1'-5'	CSB-ST39-4-1'-5'	CSB-ST40-5-1'-5'	CSB-ST41-2-1'-5'	CSB-ST41-6-1'-5'	CSB-ST41-8-1'-5'	CSB-ST38-2-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Date Collected		6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.5	2.9	4.2	4.8	4.1	<2.5	4.5	6.4	3.5	4.5	6.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA5995-30	DA5995-31	DA5995-32	DA5995-33	DA5995-34	DA5995-35	DA5995-7	DA5995-8	DA5995-9	DA6056-17	DA6056-18
Client_ID		CSB-ST38-2-5'-10'	CSB-ST38-2-10'-12'	CSB-ST40-8-1'-5'	CSB-ML66D-6-1'-5'	CSB-ST41D-2-1'-5'	CSB-ST39D-4-1'-5'	CSB-ST38-3-1'-5'	CSB-ST38-3-5'-9'	CSB-ST38-5-1'-5'	CSB-ST38-7-1'-5'	CSB-ST38-7-5'-10'
Depth (ft BGS)		5-10	10-12	1-5	1-5	1-5	1-5	1-5	5-9	1-5	1-5	5-10
Date Collected		6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/6/2018	6/7/2018	6/7/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	12.7[c]	4.1	6.3	3.3	5.1	7	<13	5.4	4.4	<13	<14
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6056-19	DA6056-20	DA6056-21	DA6056-22	DA6056-23	DA6056-24	DA6056-25	DA6056-26	DA6056-27	DA6056-28	DA6056-29
Client_ID		CSB-ST38-7-10'-12'	CSB-ST39-3-1'-5'	CSB-ST39-3-5'-8'	CSB-ST39-9-1'-5'	CSB-ST39-9-5'-7'	CSB-ST40-2-1'-5'	CSB-ST40-2-5'-7'	CSB-ST41-4-1'-5'	CSB-ST79-2-1'-3'	CSB-ST79-3-1'-3'	CSB-ML48-2-1'-5'
Depth (ft BGS)		10-12	1-5	5-8	1-5	5-7	1-5	5-7	1-5	1-3	1-3	1-5
Date Collected		6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<13	<13	4.6	<2.5	3.7	2.6	7.1	2.9	5.2	5.4	11.5[c]
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6056-30	DA6056-31	DA6056-32	DA6056-33	DA6056-34	DA6056-35	DA6056-36	DA6056-37	DA6056-38	DA6056-39	DA6056-40
Client_ID		CSB-ML48-4-1'-5'	CSB-ST73-1-1'-2'	CSB-ST74-1-1'-3'	CSB-ST74-3-1'-3'	CSB-ST75-2-1'-3'	CSB-ST76-1-1'-3'	CSB-ST76-4-1'-3'	CSB-ST78-1-1'-3'	CSB-ST78-2-1'-3'	CSB-ML50-3-1'-5'	CSB-ST32-3-1'-3'
Depth (ft BGS)		1-5	1-2	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-5	1-3
Date Collected		6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.8	10.8	4.9	4.5	6.7	4.4	3	4.4	4	5.5	4.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	3.14[c]	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	4.18[cd]	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	6.42[c]	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	0.508[c]	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	2.27[c]	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6056-41	DA6056-42	DA6056-43	DA6056-44	DA6056-45	DA6056-46	DA6056-47	DA6056-48	DA6056-49	DA6116-13	DA6116-14
Client_ID		CSB-ML48-6-1'-5'	CSB-ST34-2-1'-2'	CSB-ST34-4-1'-3'	CSB-ST34-4-3'-5'	CSB-ST36-3-1'-3'	CSB-ST36-3-3'-5'	CSB-ST36-1-1'-3'	CSB-ST36-1-3'-5'	CSB-ST39D-9-1'-5'	CSB-ST58-2-1'-3'	CSB-ML50-5-1'-5'
Depth (ft BGS)		1-5	1-2	1-3	3-5	1-3	3-5	1-3	3-5	1-5	1-3	1-5
Date Collected		6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/7/2018	6/11/2018	6/11/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.6	7.3	6.6	<12	<13	<12	<12	<13	<2.5	3.7	2.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6116-15	DA6116-16	DA6116-17	DA6116-18	DA6116-19	DA6116-20	DA6116-21	DA6116-22	DA6116-23	DA6116-24	DA6116-25
Client_ID		CSB-ML50-9-1'-5'	CSB-ML63-2-1'-5'	CSB-ML63-4-1'-5'	CSB-ML63-6-1'-5'	CSB-ML65-3-1'-5'	CSB-ML65-5-1'-5'	CSB-ML65-7-1'-5'	CSB-ML65-7-5'-7'	CSB-ML65-9-1'-5'	CSB-ML50-1-1'-5'	CSB-ML50-7-1'-5'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-7	1-5	1-5	1-5
Date Collected		6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.2	6.5	3.4	3.4	4.2	3.7	3.9	5.1	4.3	5.5	3.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6116-26	DA6116-27	DA6116-28	DA6116-29	DA6116-30	DA6238-11	DA6238-12	DA6238-13	DA6238-14	DA6238-15	DA6238-16
Client_ID		CSB-ST29-1-1'-3'	CSB-ST29-3-1'-5'	CSB-ST32-1-1'-3'	CSB-ML50D-7-1'-5'	CSB-ML65D-5-1'-5'	CSB-ST70-4-1'-3'	CSB-ST71-4-1'-3'	CSB-ST72-1-1'-3'	CSB-ST73-3-1'-3'	CSB-ST78-3-1'-3'	CSB-ST88-4-1'-5'
Depth (ft BGS)		1-3	1-5	1-3	1-5	1-5	1-3	1-3	1-3	1-3	1-3	1-5
Date Collected		6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/11/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.7	5.4	3.7	4.1	4.1	3.7	5.6	3.6	4.9	2.8	2.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6238-17	DA6238-18	DA6238-19	DA6238-20	DA6238-21	DA6238-22	DA6238-23	DA6238-24	DA6238-25	DA6238-26	DA6238-27
Client_ID		CSB-ST88-4-5'-10'	CSB-ST88-6-1'-5'	CSB-ST88-6-5'-10'	CSB-ST88-6-10'-13'	CSB-ST88-9-1'-5'	CSB-ST88-9-5'-10'	CSB-ST88-9-10'-12'	CSB-ST89-8-1'-5'	CSB-ST89-8-5'-10'	CSB-ST89-8-10'-15'	CSB-ST89-8-15'-20'
Depth (ft BGS)		5-10	1-5	5-10	10-13	1-5	5-10	10-12	1-5	5-10	10-15	15-20
Date Collected		6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.5	3.8	3.4	2.8	6.2	4.8	<2.4	3.4	3.2	<2.4	<2.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6238-28	DA6238-29	DA6238-30	DA6238-31	DA6238-32	DA6238-33	DA6238-34	DA6238-35	DA6238-36	DA6238-37	DA6295-10
Client_ID		CSB-ST97-2-1'-5'	CSB-ST98-1-1'-3'	CSB-ST98-3-1'-3'	CSB-ST97-7-1'-3'	CSB-ST90-5-1'-5'	CSB-ST90-7-1'-5'	CSB-ST90-9-1'-5'	CSB-ST91-5-1'-5'	CSB-ST88D-4-5'-10'	CSB-ST97D-7-1'-3'	CSB-ML99-7-1'-5'
Depth (ft BGS)		1-5	1-3	1-3	1-3	1-5	1-5	1-5	1-5	5-10	1-3	1-5
Date Collected		6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/13/2018	6/14/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.1	5.7	4.2	3.9	3.2	4	6.9	3.8	6.9	3.5	8.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Exceed

Sample		DA6295-11	DA6295-12	DA6295-13	DA6295-14	DA6295-15	DA6295-16	DA6295-17	DA6295-18	DA6295-19	DA6295-20	DA6295-21
Client_ID		CSB-ST80-3-1'-3'	CSB-ST91-7-1'-5'	CSB-ST91-9-1'-5'	CSB-ST98-3-1'-3'	CSB-ML99-8-1'-5'	CSB-ST92-1-1'-3'	CSB-ST92-1-3'-5'	CSB-ST68-3-1'-3'	CSB-ST81-2-1'-3'	CSB-ST81-2-3'-5'	CSB-ST81-2-5'-7'
Depth (ft BGS)		1-3	1-5	1-5	1-3	1-5	1-3	3-5	1-3	1-3	3-5	5-7
Date Collected		6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3	4.3	6.2	5.7	6.3	5.1	<2.5	8.1	3.3	3.8	<2.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	0.371[c]	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	0.169[c]	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

Exceed

Exceed

Exceed

Exceed

Sample		DA6295-22	DA6295-23	DA6295-24	DA6295-25	DA6295-26	DA6295-7	DA6295-8	DA6295-9	DA6338-10	DA6338-11	DA6338-12
Client_ID		CSB-ST81-4-1'-3'	CSB-ST100-8-1'-5'	CSB-ST101-9-1'-5'	CSB-ST101D-9-1'-5'	CSB-ML99D-7-1'-5'	CSB-ML99-1-1'-5'	CSB-ML99-3-1'-5'	CSB-ML99-4-1'-5'	CSB-ST95-5-5'-10'	CSB-ST95-7-1'-5'	CSB-ST95-7-5'-7'
Depth (ft BGS)		1-3	1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-10	1-5	5-7
Date Collected		6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/14/2018	6/15/2018	6/15/2018	6/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.7	2.5	2.8	2.9	5.6	5.4	5.3	5.5	3.8	4.2	<2.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA6338-13	DA6338-14	DA6338-15	DA6338-16	DA6338-17	DA6338-18	DA6338-19	DA6338-20	DA6338-21	DA6338-22	DA6338-23
Client_ID		CSB-ST95-9-1'-5'	CSB-ST96-6-1'-4'	CSB-ST96-9-1'-5'	CSB-ST101-6-1'-5'	CSB-ST96-5-1'-5'	CSB-ST96-5-5'-7'	CSB-ST48-1-1'-3'	CSB-ST49-1-1'-3'	CSB-ST84-3-1'-3'	CSB-ST40-4-1'-5'	CSB-ST40-6-1'-5'
Depth (ft BGS)		1-5	1-4	1-5	1-5	1-5	5-7	1-3	1-3	1-3	1-5	1-5
Date Collected		6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018	6/15/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	4.4	3.6	<2.6	2.5	5.1	2.7	3.2	2.9	4.8	3.9	2.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

*	BRMMF
	Exceed
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	Exceed

Sample		DA6338-24	DA6338-25	DA6338-9	DA6399-15	DA6399-16	DA6399-17	DA6399-18	DA6399-19	DA6399-20	DA6399-21	DA6399-22
Client_ID		CSB-ST40-6-5'-9'	CSB-ST101D-6-1'-5'	CSB-ST95-5-1'-5'	CSB-ST75-3-1'-3'	CSB-ST75-3-3'-5'	CSB-ST82-2-1'-3'	CSB-ST82-2-3'-5'	CSB-ST82-4-1'-3'	CSB-ST82-4-3'-5'	CSB-ST83-2-1'-3'	CSB-ST83-2-3'-5'
Depth (ft BGS)		5-9	1-5	1-5	1-3	3-5	1-3	3-5	1-3	3-5	1-3	3-5
Date Collected		6/15/2018	6/15/2018	6/15/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	2.7	3.3	4.2	4.5	4.4	<2.7	5.1	<2.6	<2.5	6.2	6.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	0.112[c]	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6399-23	DA6399-24	DA6399-25	DA6399-26	DA6399-27	DA6399-28	DA6399-29	DA6399-30	DA6399-31	DA6399-32	DA6399-33
Client_ID		CSB-ST83-4-1'-3'	CSB-ST83-4-3'-5'	CSB-ST90-1-1'-5'	CSB-ST90-1-5'-10'	CSB-ST90-1-10'-11'	CSB-ST90-3-1'-5'	CSB-ST88-1-1'-5'	CSB-ST88-1-10'-12'	CSB-ST88-3-1'-5'	CSB-ST88-3-5'-9'	CSB-ST89-2-1'-5'
Depth (ft BGS)		1-3	3-5	1-5	5-10	10-11	1-5	1-5	10-12	1-5	5-9	1-5
Date Collected		6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.1	4.9	5.7	5	9.4	4.9	5.8	5.1	5.3	4.2	7.2
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6399-34	DA6399-35	DA6399-36	DA6399-37	DA6399-38	DA6399-39	DA6399-40	DA6456-13	DA6456-14	DA6456-15	DA6456-16
Client_ID		CSB-ST89-2-5'-10'	CSB-ST89-4-1'-5'	CSB-ST89-4-5'-10'	CSB-ST80-1-1'-3'	CSB-ST71-3-1'-3'	CSB-ST89D-4-5'-10'	CSB-ST90D-3-1'-5'	CSB-ST89-6-1'-5'	CSB-ST89-6-5'-10'	CSB-ST89-6-10'-12'	CSB-ST92-3-1'-3'
Depth (ft BGS)		5-10	1-5	5-10	1-3	1-3	5-10	1-5	1-5	5-10	10-12	1-3
Date Collected		6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/19/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.4	6.5	5.7	4.3	5.2	5.3	4.7	5.5	8.8	5.5	7.9
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6456-17	DA6456-18	DA6456-19	DA6456-20	DA6456-21	DA6456-22	DA6456-23	DA6456-24	DA6456-25	DA6456-26	DA6456-27
Client_ID		CSB-ST93-5-1'-5'	CSB-ST93-7-1'-5'	CSB-ST93-9-1'-5'	CSB-ST94-5-1'-5'	CSB-ST94-8-1'-5'	CSB-ST95-1-1'-5'	CSB-ST95-3-1'-5'	CSB-ST95-3-5'-10'	CSB-ST95-3-10'-12'	CSB-ST92-3-3'-5'	CSB-ST99-1-1'-3'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-10	10-12	3-5	1-3
Date Collected		6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	6.5	6.4	8.6	3.5	4	4.4	5.8	4.8	<13	<13	<14
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6456-28	DA6456-29	DA6456-30	DA6456-31	DA6456-32	DA6456-33	DA6456-34	DA6456-35	DA6456-36	DA6456-37	DA6506-10
Client_ID		CSB-ST100-2-1'-5'	CSB-ST100-5-1'-5'	CSB-ST100-6-1'-5'	CSB-ST101-1-1'-5'	CSB-ST101-3-1'-5'	CSB-ST101-4-1'-5'	CSB-ST70-1-1'-3'	CSB-ST70-3-1'-3'	CSB-ST100D-6-1'-5'	CSB-ST93D-9-1'-5'	CSB-ST43-1-1'-3'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	1-5	1-3	1-3	1-5	1-5	1-3
Date Collected		6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/20/2018	6/21/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<13	<12	<13	<12	<12	<12	<12	<13	<13	<14	3.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6506-11	DA6506-12	DA6506-13	DA6506-14	DA6506-15	DA6506-16	DA6506-17	DA6506-18	DA6506-19	DA6506-20	DA6506-21	DA6506-22
Client_ID		CSB-ST44-2-1'-3'	CSB-ST45-1-1'-3'	CSB-ST45-1-3'-5'	CSB-ST45-4-1'-3'	CSB-ST45-4-3'-5'	CSB-ST46-3-1'-3'	CSB-ST46-3-3'-5'	CSB-ST43-3-1'-3'	CSB-ST44-4-1'-3'	CSB-EN-2-0'-3'	CSB-EN-4-0'-3'	CSB-EN-6-0'-3'
Depth (ft BGS)		1-3	1-3	3-5	1-3	3-5	1-3	3-5	1-3	1-3	0-3	0-3	0-3
Date Collected		6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	4.4	3	3.9	4.3	5.5	5.5	6.3	4.2	4.5	6.4	4.5	<28
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	0.761[c]	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	1.19[c]	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6506-23	DA6506-24	DA6506-25	DA6506-26	DA6506-27	DA6506-28	DA6506-29	DA6506-30	DA6506-31	DA6506-32	DA6506-33	DA6506-34
Client_ID		CSB-EN-8-0'-3'	CSB-EN-10-0'-3'	CSB-EN-12-0'-3'	CSB-EN-14-0'-3'	CSB-EN-16-0'-3'	CSB-EN-18-0'-3'	CSB-EN-20-0'-3'	CSB-EN-22-0'-3'	CSB-EN-24-0'-3'	CSB-EN-26-0'-3'	CSB-EN-10D-0'-3'	CSB-EN-12D-0'-3'
Depth (ft BGS)		0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3
Date Collected		6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3	3.4	3.3	2.9	5.1	4.7	4.1	3.4	4.7	4.2	3.2	3.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

Exceed

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Exceed

Sample		DA6506-9	DA6534-1	DA6534-2	DA6534-3	DA6534-4	DA6534-5	DA6534-6	DA6534-7	DA6534-8	DA6534-9	DA6570-3	DA6570-4
Client_ID		CSB-ML63-5-1'-5'	CSB-ST88-1-5'-10'	CSB-EN-30-0'-3'	CSB-EN-32-0'-3'	CSB-EN-34-0'-3'	CSB-EN-36-0'-3'	CSB-EN-38-0'-3'	CSB-EN-28-0'-3'	CSB-EN-40-0'-3'	CSB-EN-28D-0'-3'	CSB-ST84-2-1'-3'	CSB-ST84-2-3'-5'
Depth (ft BGS)		1-5	5-10	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	1-3	3-5
Date Collected		6/21/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/25/2018	6/25/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	4.5	3.4	<12	4.1	3.5	4.1	<13	<13	3.7	3.8	6.2	5.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA6570-5	DA6606-10	DA6606-5	DA6606-6	DA6606-7	DA6606-8	DA6606-9	DA6668-5	DA6668-6	DA6668-7	DA6716-11
Client_ID		CSB-ST84D-2-3'-5'	CSB-ST85D-2-1'-3'	CSB-ST85-2-1'-3'	CSB-ST85-4-1'-3'	CSB-ST86-2-1'-3'	CSB-ST86-4-1'-3'	CSB-ST87-2-1'-3'	CSB-ST68-4-1'-3'	CSB-ST68-4-3'-5'	CSB-ST98-1-1'-3'	CSB-ST87-4-1'-3'
Depth (ft BGS)		3-5	1-3	1-3	1-3	1-3	1-3	1-3	1-3	3-5	1-3	1-3
Date Collected		6/25/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/27/2018	6/27/2018	6/27/2018	6/28/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.2	4.5	4.1	4.2	5.8	4.3	4.1	3.9	4.6	4.5	4.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6716-12	DA6716-13	DA6716-14	DA6716-15	DA6716-16	DA6716-17	DA6716-18	DA6716-19	DA6716-20	DA6716-21	DA6716-22
Client_ID		CSB-ST90-3-5'-7'	CSB-ST93-1-1'-5'	CSB-ST93-3-1'-5'	CSB-ST93-3-5'-7'	CSB-ST94-2-1'-5'	CSB-ST94-4-1'-5'	CSB-ST94-4-5'-7'	CSB-ST96-2-1'-5'	CSB-ST96-2-5'-7'	CSB-ST96-3-1'-5'	CSB-ST99-2-1'-3'
Depth (ft BGS)		5-7	1-5	1-5	5-7	1-5	1-5	5-7	1-5	5-7	1-5	1-3
Date Collected		6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.5	4.2	4.2	5.8	4.9	5.8	4.3	4.9	6.4	<2.5	<2.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6716-23	DA6859-1	DA6859-2	DA6859-3	DA6859-4	DA6859-5	DA6859-6	DA6926-10	DA6926-11	DA6926-12	DA6926-13
Client_ID		CSB-ST96D-3-1'-5'	CSB-ML43-3-1'-5'	CSB-ML43-3-5'-10'	CSB-ML43-5-1'-5'	CSB-ML43-5-5'-7'	CSB-ML43-9-1'-5'	CSB-ML43D-9-1'-5'	CSB-ML43-1-5'-10'	CSB-ML43-1-10'-15'	CSB-ML43-7-1'-5'	CSB-ML42-4-1'-5'
Depth (ft BGS)		1-5	1-5	5-10	1-5	5-7	1-5	1-5	5-10	10-15	1-5	1-5
Date Collected		6/28/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/5/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.6	6	23.4[c]	3.9	5.1	3.9	3.4	3.8	3.4	3.6	2.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	0.205[c]	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6926-14	DA6926-15	DA6926-16	DA6926-17	DA6926-18	DA6926-19	DA6926-20	DA6926-21	DA6926-22	DA6926-23	DA6926-5
Client_ID		CSB-ST18-4-1'-3'	CSB-ST18-4-3'-5'	CSB-ML27-1-1'-5'	CSB-ML23-7-1'-5'	CSB-ML24-9-1'-5'	CSB-ML25-2-1'-5'	CSB-ML25-6-1'-5'	CSB-ML25-6-5'-10'	CSB-ML26-1-1'-5'	CSB-ML27D-1-1'-5'	CSB-ML42-2-1'-5'
Depth (ft BGS)		1-3	3-5	1-5	1-5	1-5	1-5	1-5	5-10	1-5	1-5	1-5
Date Collected		7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	15.5[c]	3.1	2.8	3.6	3.5	3.7	4.1	7.3	7.8	4.8	4
Lead	mg/kg	701[c]	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6926-6	DA6926-7	DA6926-8	DA6926-9	DA6965-10	DA6965-11	DA6965-12	DA6965-13	DA6965-14	DA6965-15	DA6965-16
Client_ID		CSB-ML42-6-1'-5'	CSB-ML42-8-1'-5'	CSB-ML42-8-5'-8'	CSB-ML43-1-1'-5'	CSB-ML25-3-1'-5'	CSB-ML25-4-1'-5'	CSB-ML25-7-1'-5'	CSB-ML25-8-1'-5'	CSB-ML26-2-1'-5'	CSB-ML26-2-5'-10'	CSB-ML26-2-10'-13'
Depth (ft BGS)		1-5	1-5	5-8	1-5	1-5	1-5	1-5	1-5	1-5	5-10	10-13
Date Collected		7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.5	3.2	2.9	5.4	3.8	7.1	37.8[cd]	4.8	101[cd]	47.9[cd]	94.1[cd]
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	0.167[c]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA6965-17	DA6965-18	DA6965-5	DA6965-6	DA6965-7	DA6965-8	DA6965-9	DA7077-10	DA7077-11	DA7077-12	DA7077-13
Client_ID		CSB-ST21-3-1'-3'	CSB-ML26D-2-10'-13'	CSB-ML27-4-1'-5'	CSB-ML27-5-1'-5'	CSB-ML27-7-1'-5'	CSB-ML27-2-1'-5'	CSB-ML27-3-1'-5'	CSB-ML17-1-1'-5'	CSB-ML24-1-1'-5'	CSB-ML24-3-1'-5'	CSB-ML24-3-5'-7'
Depth (ft BGS)		1-3	10-13	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	5-7
Date Collected		7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	104[cd]	89.3[cd]	4.6	5.2	2.7	43[cd]	6.3	4.4	5.3	2.9	3.1
Lead	mg/kg	696[c]	--	--	--	--	1100[cd]	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	0.21[c]	0.188[c]	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7077-14	DA7077-15	DA7077-16	DA7077-17	DA7077-18	DA7077-19	DA7077-20	DA7077-21	DA7077-5	DA7077-6	DA7077-7
Client_ID		CSB-ML24-5-1'-5'	CSB-ML24-7-1'-5'	CSB-ML24-7-5'-7'	CSB-ML27-9-1'-5'	CSB-ST15-3-1'-5'	CSB-ST72-2-1'-3'	CSB-ST73-2-1'-3'	CSB-ML24D-1-1'-5'	CSB-ST13-5-1'-5'	CSB-ST13-7-1'-5'	CSB-ST15-7-1'-5'
Depth (ft BGS)		1-5	1-5	5-7	1-5	1-5	1-3	1-3	1-5	1-5	1-5	1-5
Date Collected		7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018	7/12/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.9	<13	<12	<15	<13	<13	<12	<14	8	4	11.1[c]
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	484[cd]	--	--	--	245[cd]
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7077-8	DA7077-9	DA7341-11	DA7341-12	DA7341-13	DA7341-14	DA7341-15	DA7341-16	DA7341-17	DA7341-18	DA7341-19
Client_ID		CSB-ST15-8-1'-5'	CSB-ST15-8-5'-8'	CSB-ML23-5-1'-2.5'	CSB-ML23-8-1'-2.5'	CSB-ST72-3-1'-3'	CSB-ES211-0'-5'	CSB-ES213-0'-5'	CSB-ES215-0'-5'	CSB-ES217-0'-5'	CSB-ES219-0'-5'	CSB-ES219D-0'-5'
Depth (ft BGS)		1-5	5-8	1-2.5	1-2.5	1-3	0-5	0-5	0-5	0-5	0-5	0-5
Date Collected		7/12/2018	7/12/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	5.1	<2.5	<2.5	<2.6	<2.7	<2.7	<2.8	<2.8	<2.7	<2.6	<2.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7341-3	DA7341-4	DA7341-5	DA7341-6	DA7341-7	DA7341-8	DA7341-9	DA7440-1	DA7440-10	DA7440-11	DA7440-12	DA7440-13
Client_ID		CSB-ST11-3-1'-3'	CSB-ST11-3-3'-5'	CSB-ST31-2-1'-3'	CSB-ST31-4-1'-3'	CSB-ML6-7-1'-3'	CSB-ML6-8-1'-3'	CSB-ML6-9-1'-3'	CSB-ES-205-0'-3'	CSB-ES-12-0'-3'	CSB-ES-98-0'-3'	CSB-ES-100-0'-3'	CSB-ES-102-0'-3'
Depth (ft BGS)		1-3	3-5	1-3	1-3	1-3	1-3	1-3	0-3	0-3	0-3	0-3	0-3
Date Collected		7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	<2.6	<2.6	<2.5	<2.5	3.4	2.8	<2.6	<2.5	<2.6	<2.5	<2.5	<2.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7440-14	DA7440-15	DA7440-16	DA7440-2	DA7440-3	DA7440-4	DA7440-5	DA7440-6	DA7440-7	DA7440-8	DA7440-9	DA7494-10
Client_ID		CSB-ES-104-0'-3'	CSB-ES-106-0'-3'	CSB-ES-106D-0'-3'	CSB-EN-206-0'-3'	CSB-ES-207-0'-3'	CSB-EN-208-0'-3'	CSB-ES-209-0'-3'	CSB-ES-4-0'-3'	CSB-ES-6-0'-3'	CSB-ES-8-0'-3'	CSB-ES-10-0'-2'	CSB-ES-110-0'-3'
Depth (ft BGS)		0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-2	0-3
Date Collected		7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/25/2018	7/26/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	<2.6	<2.4	<2.5	<2.6	<2.4	<2.6	<2.6	<2.7	<2.4	<2.5	<2.4	<3
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7494-11	DA7494-12	DA7494-13	DA7494-14	DA7494-15	DA7494-16	DA7494-17	DA7494-18	DA7494-19	DA7494-20	DA7494-21
Client_ID		CSB-ES-112-0'-3'	CSB-ES-114-0'-3'	CSB-ES-116-0'-3'	CSB-ES-118-0'-3'	CSB-ES-120-0'-3'	CSB-ES-122-0'-5'	CSB-ES-124-0'-5'	CSB-ES-126-0'-3'	CSB-ES-128-0'-3'	CSB-ES-130-0'-3'	CSB-ES-108D-0'-3'
Depth (ft BGS)		0-3	0-3	0-3	0-3	0-3	0-5	0-5	0-3	0-3	0-3	0-3
Date Collected		7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.5	<3	3.1	<2.5	<2.6	2.5	<2.6	<2.5	<2.5	<2.6	<2.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7494-22	DA7494-3	DA7494-4	DA7494-5	DA7494-6	DA7494-7	DA7494-9	DA7575-6	DA7658-1	DA7658-2	DA7658-3
Client_ID		CSB-ES-122D-0'-5'	CSB-ML23-1-1'-5'	CSB-ML23-1-5'-10'	CSB-ML23-1-10'-15'	CSB-ML23-1-15'-19'	CSB-ML23-4-1'-5'	CSB-ES-108-0'-3'	CSB-EN-154-0'-2.0'	CSB-EN-108-0'-3'	CSB-EN-114-0'-3'	CSB-EN-116-0'-2'
Depth (ft BGS)		0-5	1-5	5-10	10-15	15-19	1-5	0-3	0-2	0-3	0-3	0-2
Date Collected		7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/30/2018	8/1/2018	8/1/2018	8/1/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.4	<2.5	<2.4	5	6.5	30.8[c]	<2.4	<13	5.4	<2.7	<2.6
Lead	mg/kg	--	--	--	--	--	1140[cd]	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Sample		DA7658-4	DA7658-5	DA7658-6	DA7658-7	DA7658-8	DA7658-9	DA7765-1	DA7765-10	DA7765-11	DA7765-12	DA7765-13	DA7765-14
Client_ID		CSB-EN-118-0'-2'	CSB-EN-120-0'-2'	CSB-EN-122-0'-2'	CSB-EN-124-0'-2'	CSB-EN-141-0'-2'	CSB-EN-108D-0'-3'	CSB-EN-70-0'-2'	CSB-EN-92-0'-3'	CSB-EN-94-0'-3'	CSB-EN-96-0'-3'	CSB-EN-132-0'-2'	CSB-EN-134-0'-2'
Depth (ft BGS)		0-2	0-2	0-2	0-2	0-2	0-3	0-2	0-3	0-3	0-3	0-2	0-2
Date Collected		8/1/2018	8/1/2018	8/1/2018	8/1/2018	8/1/2018	8/1/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.1	2.9	<2.8	3.7	<3	4	<2.4	2.7	<2.9	<2.7	<2.8	4.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7765-15	DA7765-2	DA7765-3	DA7765-4	DA7765-5	DA7765-6	DA7765-7	DA7765-8	DA7765-9	DA7823-1	DA7823-10	DA7823-11
Client_ID		CSB-EN-92D-0'-3'	CSB-EN-72-0'-2'	CSB-EN-74-0'-2'	CSB-EN-76-0'-2'	CSB-EN-78-0'-2'	CSB-EN-80-0'-2'	CSB-EN-82-0'-2'	CSB-EN-88-0'-3'	CSB-EN-90-0'-3'	CSB-ES-18-0'-2'	CSB-ES-53-0'-2'	CSB-ES-55-0'-2'
Depth (ft BGS)		0-3	0-2	0-2	0-2	0-2	0-2	0-2	0-3	0-3	0-2	0-2	0-2
Date Collected		8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/6/2018	8/7/2018	8/7/2018	8/7/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.3	5.2	3.9	4	3.9	<2.6	<2.6	3.3	3.2	3	4.7	<2.4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	272[cd]	--	--	--	--	--	122[cd]	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Sample		DA7823-12	DA7823-13	DA7823-14	DA7823-15	DA7823-16	DA7823-17	DA7823-18	DA7823-19	DA7823-2	DA7823-24	DA7823-3	DA7823-4
Client_ID		CSB-ES-57-0'-2'	CSB-ES-59-0'-2'	CSB-ES-61-0'-2'	CSB-ES-63-0'-2'	CSB-ES-71-0'-2'	CSB-ES-65-0'-2'	CSB-ES-67-0'-2'	CSB-ES-69-0'-2'	CSB-ES-20-0'-2'	CSB-ES-22D-0'-2'	CSB-ES-22-0'-2'	CSB-ES-41-0'-2'
Depth (ft BGS)		0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Date Collected		8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	<2.4	<2.5	<2.6	2.8	<2.6	2.8	<2.6	<2.5	<2.6	3.4	<2.7	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA7823-5	DA7823-6	DA7823-7	DA7823-8	DA7823-9	DA8005-10	DA8005-11	DA8005-12	DA8005-13	DA8005-14	DA8005-15	DA8005-16
Client_ID		CSB-ES-43-0'-2'	CSB-ES-45-0'-2'	CSB-ES-47-0'-2'	CSB-ES-49-0'-2'	CSB-ES-51-0'-2'	CSB-ST108-4-10'-15'	CSB-ST108-5-1'-5'	CSB-ST108-7-1'-5'	CSB-ST108-9-1'-5'	CSB-ST109-1-1'-5'	CSB-ES-2-0'-2'	CSB-ES-186-0'-2'
Depth (ft BGS)		0-2	0-2	0-2	0-2	0-2	10-15	1-5	1-5	1-5	1-5	0-2	0-2
Date Collected		8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/7/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	<2.4	<2.5	4.5	<2.5	3.9	4.9	<2.6	5.3	<2.6	5	3.1	<2.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	195[cd]	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA8005-17	DA8005-18	DA8005-19	DA8005-20	DA8005-21	DA8005-22	DA8005-7	DA8005-8	DA8005-9	DA8058-1	DA8058-10
Client_ID		CSB-ST109-3-1'-5'	CSB-ST109-6-1'-5'	CSB-ST109-8-1'-5'	CSB-ST110-1-1'-5'	CSB-ST110-3-1'-5'	CSB-ES-186D-0'-2'	CSB-ST108-3-1'-5'	CSB-ST108-4-1'-5'	CSB-ST108-4-5'-10'	CSB-EN-67-0'-2'	CSB-EN-48-0'-2'
Depth (ft BGS)		1-5	1-5	1-5	1-5	1-5	0-2	1-5	1-5	5-20	0-2	0-2
Date Collected		8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/10/2018	8/14/2018	8/14/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	<2.5	5	5.2	<2.8	<2.9	<2.8	<2.5	7.7	2.8	3.3	3.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA8058-11	DA8058-12	DA8058-13	DA8058-14	DA8058-15	DA8058-16	DA8058-17	DA8058-18	DA8058-19	DA8058-2	DA8058-20	DA8058-3
Client_ID		CSB-EN-50-0'-2'	CSB-EN-52-0'-2'	CSB-EN-54-0'-2'	CSB-EN-56-0'-2'	CSB-EN-58-0'-2'	CSB-EN-60-0'-2'	CSB-EN-62-0'-2'	CSB-EN-64-0'-2'	CSB-EN-65-0'-2'	CSB-EN-69-0'-2'	CSB-EN-69D-0'-2'	CSB-EN-97-0'-3'
Depth (ft BGS)		0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-3
Date Collected		8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	4.1	4.2	4.8	7.8	4.8	6.4	4.9	3.5	2.6	<2.6	<2.8	<2.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA8058-4	DA8058-5	DA8058-6	DA8058-7	DA8058-8	DA8058-9	DA8132-1	DA8132-10	DA8132-11	DA8132-2	DA8132-3	DA8132-4
Client_ID		CSB-EN-99-0'-3'	CSB-EN-101-0'-3'	CSB-EN-105-0'-3'	CSB-EN-106-0'-3'	CSB-EN-107-0'-3'	CSB-EN-110-0'-3'	CSB-EN-42-0'-2'	CSB-EN-139-0'-2'	CSB-EN-134D-0'-2'	CSB-EN-44-0'-2'	CSB-EN-46-0'-2'	CSB-EN-96-0'-3'
Depth (ft BGS)		0-3	0-3	0-3	0-3	0-3	0-3	0-2	0-2	0-2	0-2	0-2	0-3
Date Collected		8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/14/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.2	<2.9	3.9	3.2	3.6	4.9	3.8	5	5.7	4.1	<2.6	6.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Sample		DA8132-5	DA8132-6	DA8132-7	DA8132-8	DA8132-9	DA8199-1	DA8199-10	DA8199-13	DA8199-2	DA8199-3	DA8199-4
Client_ID		CSB-EN-98-0'-3'	CSB-EN-132-0'-2'	CSB-EN-134-0'-2'	CSB-EN-136-0'-2'	CSB-EN-138-0'-2'	CSB-EN-273-0'-5'	CSB-ES-142-0'-3'	CSB-ES-314D-0'-5'	CSB-EN-275-0'-5'	CSB-EN-277-0'-5'	CSB-EN-279-0'-5'
Depth (ft BGS)		0-3	0-2	0-2	0-2	0-2	0-5	0-3	0-5	0-5	0-5	0-5
Date Collected		8/15/2018	8/15/2018	8/15/2018	8/15/2018	8/15/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.3	5.6	5.6	6.5	6.6	2.6	3.9	2.5	<2.7	2.7	<2.7
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

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Sample		DA8199-5	DA8199-6	DA8199-7	DA8199-8	DA8199-9	DA8224-1	DA8224-2	DA8353-1	DA8353-2	DA8353-3	DA8354-1	DA8354-10
Client_ID		CSB-ES-308-0'-5'	CSB-ES-310-0'-5'	CSB-ES-312-0'-5'	CSB-ES-314-0'-5'	CSB-ES-16-0'-2'	CSB-EN-141-0'-2'	CSB-EN-144-0'-2'	CSB-ES-14-0'-2'	CSB-EN-268-0'-3'	CSB-EN-270-0'-3'	CSB-ES-285-0'-5'	CSB-ES-303-0'-5'
Depth (ft BGS)		0-5	0-5	0-5	0-5	0-2	0-2	0-2	0-2	0-3	0-3	0-5	0-5
Date Collected		8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/16/2018	8/17/2018	8/17/2018	8/21/2018	8/21/2018	8/21/2018	8/20/2018	8/20/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.2	<2.6	2.9	2.6	4.2	4.1	2.9	5.1	3.1	2.9	<2.9	2.6
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	112[cd]	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Exceed

Sample		DA8354-11	DA8354-12	DA8354-13	DA8354-2	DA8354-3	DA8354-4	DA8354-5	DA8354-6	DA8354-7	DA8354-8	DA8354-9
Client_ID		CSB-ES-305-0'-5'	CSB-ES-307-0'-5'	CSB-ES-307D-0'-5'	CSB-ES-287-0'-5'	CSB-ES-289-0'-5'	CSB-ES-291-0'-5'	CSB-ES-293-0'-5'	CSB-ES-295-0'-5'	CSB-ES-297-0'-5'	CSB-ES-299-0'-5'	CSB-ES-301-0'-5'
Depth (ft BGS)		0-5	0-5	0-5	0-5	0-5	0-5	0-5	0-5	0-5	0-5	0-5
Date Collected		8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018	8/20/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	3.4	3.2	2.8	<2.6	<2.8	3.4	3.5	3.2	3	3	3.5
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

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Sample		DA8439-3	DA8502-1	DA8502-10	DA8502-11	DA8502-12	DA8502-13	DA8502-14	DA8502-15	DA8502-2	DA8502-3	DA8502-4	DA8502-5
Client_ID		CSB-ES-245-0'-2'	CSB-ES-73-0'-3'	CSB-ES-96-0'-3'	CSB-ES-136-0'-3'	CSB-ES-138-0'-3'	CSB-ES-140-0'-3'	CSB-ES-144-0'-3'	CSB-ES-73D-0'-3'	CSB-ES-75-0'-3'	CSB-ES-77-0'-3'	CSB-ES-79-0'-3'	CSB-ES-81-0'-3'
Depth (ft BGS)		0-2	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3	0-3
Date Collected		8/22/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.8	3.3	4.2	4.4	4.4	5.1	3.9	3.5	3.6	4.7	4.3	4
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

Exceed

Exceed

Exceed

Exceed

Sample		DA8502-6	DA8502-7	DA8502-8	DA8502-9	DA8607-1	DA8607-10	DA8607-2	DA8607-3	DA8607-4	DA8607-5	DA8607-6	DA8607-7
Client_ID		CSB-ES-83-0'-3'	CSB-ES-85-0'-3'	CSB-ES-92-0'-3'	CSB-ES-94-0'-3'	CSB-ES-316-0'-2'	CSB-ES-39D-0'-2'	CSB-ES-27-0'-2'	CSB-ES-25-0'-2'	CSB-ES-29-0'-2'	CSB-ES-31-0'-2'	CSB-ES-33-0'-2'	CSB-ES-35-0'-2'
Depth (ft BGS)		0-3	0-3	0-3	0-3	0-2	0-2	0-2	0-2	0-2	0-2	0-2	0-2
Date Collected		8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018	8/28/2018
Parameters	**Units**												
Metals													
Arsenic	mg/kg	3.6	4.8	5.2	4.5	6.7	8	9.3	8.2	8	7.5	6.1	6.8
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP													
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--	--
PAHs													
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	123[cd]	--	--	237[cd]	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

*	BRMMF
	Exceed
	Exceed
	Exceed
	Exceed

Sample		DA8607-8	DA8607-9	DA8653-1	DA8653-3	DA8653-4	DA8653-6	DA8653-7	DA8653-8	DA8700-1	DA8700-2	DA8700-3
Client_ID		CSB-ES-37-0'-2'	CSB-ES-39-0'-2'	CSB-EN-112-0'-3'	CSB-ES-87-0'-3'	CSB-ES-89-0'-3'	CSB-ES-281-0'-5'	CSB-ES-283-0'-5'	CSB-ES-283D-0'-5'	CSB-EN-190-0'-2'	CSB-EN-191-0'-2'	CSB-EN-238-0'-4'
Depth (ft BGS)		0-2	0-2	0-3	0-3	0-3	0-5	0-5	0-5	0-2	0-2	0-4
Date Collected		8/28/2018	8/28/2018	8/29/2018	8/29/2018	8/29/2018	8/29/2018	8/29/2018	8/29/2018	8/30/2018	8/30/2018	8/30/2018
Parameters	**Units**											
Metals												
Arsenic	mg/kg	7.4	7.5	5.7	7.3	8	5.4	4.5	4.6	5.7	5.2	7.1
Lead	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Metals - TCLP												
Lead	mg/l	--	--	--	--	--	--	--	--	--	--	--
PAHs												
Benzo(a)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--	--	--	--	170[cd]	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Dibenzo(a,h)anthracene	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--	--	--	--	--	--	--	--

Footnotes:

* BRMMF

Exceed

Exceed

Exceed

Exceed

APPENDIX C

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Kiewit Infrastructure Co.	**Job No**	DA6534
Site:	FAMECOD: I-70 Central Corridor	**Report Date**	10/5/2018 9:44:30 AM

On 06/22/2018, 10 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA6534 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V7V2761

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA4946-7MS, DA4946-7MSD were used as the QC samples indicated.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of Acetone, Methyl ethyl ketone are outside control limits. Probable cause due to matrix interference.

Matrix: SO **Batch ID:** V5V2603

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6651-1MS, DA6651-1MSD were used as the QC samples indicated.
- The RPD(s) for the MS and MSD recoveries of 2-Chloroethyl vinyl ether are outside control limits for sample DA6651-1MSD. High RPD due to possible sample nonhomogeneity.

Matrix: SO **Batch ID:** V6V1852

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6506-32MS, DA6506-32MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP16488

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA4946-11MS, DA4946-11MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP16502

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA6506-24MS, DA6506-24MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- DA6534-8: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25419

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6570-6MS, DA6570-6MSD, DA6570-6SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Barium are outside control limits for sample MP25419-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP25402

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6534-1MS, DA6534-1MSD, DA6534-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Silver are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Barium, Lead are outside control limits. Probable cause due to matrix interference.
- The serial dilution RPD(s) for Arsenic, Lead are outside control limits for sample MP25402-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- DA6534-6 for Lead: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-2 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-2 for Cadmium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-2 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-6 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-6 for Cadmium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-6 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-7 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-7 for Cadmium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-7 for Lead: Elevated detection limit due to dilution required for possible matrix interference.
- DA6534-7 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- MP25402-SD1 for Barium, Chromium: Serial dilution indicates possible matrix interference.

Matrix: SO **Batch ID:** MP25406

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6534-8MS, DA6534-8MSD, DA6534-8SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Arsenic, Cadmium are outside control limits for sample MP25406-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP25406-SD1 for Lead: Serial dilution indicates possible matrix interference.

Matrix: SO **Batch ID:** MP25473

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6534-8MS, DA6534-8MSD, DA6534-8SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Barium are outside control limits for sample MP25473-SD1. Probable cause due to sample homogeneity.

Metals Analysis By Method SW846 7470A

Matrix:	AQ	Batch ID:	MP25397

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6534-10MS, DA6534-10MSD were used as the QC samples for the metals analysis.

Metals Analysis By Method SW846 7471B

Matrix:	SO	Batch ID:	MP25386

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6534-1MS, DA6534-1MSD were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540G-2011 M

Matrix:	SO	Batch ID:	GN43499

- Sample(s) DA6534-9DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Kiewit Infrastructure Co.	**Job No**	DA6506
Site:	FAMECOD: I-70 Central Corridor	**Report Date**	10/5/2018 9:56:09 AM

On 06/22/2018, 35 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 2.3 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA6506 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V7V2761

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA4946-7MS, DA4946-7MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of Acetone, Methyl ethyl ketone are outside control limits. Probable cause due to matrix interference.

Matrix: SO **Batch ID:** V5V2602

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA6456-29MS, DA6456-29MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The RPD(s) for the MS and MSD recoveries of 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Hexachlorobutadiene, n-Butylbenzene, Naphthalene, p-Isopropyltoluene, sec-Butylbenzene, tert-Butylbenzene are outside control limits for sample DA6456-29MSD. Variability of recoveries due to possible sample matrix/nonhomogeneity.

Matrix: SO **Batch ID:** V6V1851

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA6506-10MS, DA6506-10MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** V6V1852

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6506-32MS, DA6506-32MSD were used as the QC samples indicated.

MS Semi-volatiles By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP16488

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA4946-11MS, DA4946-11MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP16476

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA6506-2MS, DA6506-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- DA6506-5: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-6: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-18: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-19: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-3: Dilution required due to matrix interference; extract was viscous. Internal standard failure at lesser dilution.
- DA6506-4: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-16: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-16: Dilution required due to matrix interference; extract was viscous. Internal standard failure at lesser dilution.
- DA6506-7: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-8: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-14: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.
- DA6506-1: Dilution required due to matrix interference; extract was viscous. Internal standard failure without dilution.

Matrix: SO **Batch ID:** OP16501

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA6456-4MS, DA6456-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO **Batch ID:** OP16502

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA6506-24MS, DA6506-24MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010C

Matrix: AQ **Batch ID:** MP25378

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6399-41MS, DA6399-41MSD, DA6399-41SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Cadmium, Chromium, Selenium are outside control limits for sample MP25378-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP25380

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6506-1MS, DA6506-1MSD, DA6506-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of Silver are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The serial dilution RPD(s) for Arsenic, Barium are outside control limits for sample MP25380-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- DA6506-15 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- DA6506-20 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- MP25380-SD1 for Barium, Lead: Serial dilution indicates possible matrix interference.

Matrix: SO **Batch ID:** MP25381

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6506-21MS, DA6506-21MSD, DA6506-21SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of Silver are outside control limits. Spike recovery indicates possible matrix interference.
- The serial dilution RPD(s) for Arsenic are outside control limits for sample MP25381-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- DA6506-22 for Cadmium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6506-22 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- MP25381-SD1 for Barium, Chromium, Lead: Serial dilution indicates possible matrix interference.
- DA6506-22 for Lead: Elevated detection limit due to dilution required for possible matrix interference.
- DA6506-22 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA6506-22 for Silver: Elevated detection limit due to dilution required for possible matrix interference.

Metals Analysis By Method SW846 7470A

Matrix: AQ **Batch ID:** MP25397

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6534-10MS, DA6534-10MSD were used as the QC samples for the metals analysis.

Metals Analysis By Method SW846 7471B

Matrix:	SO	Batch ID:	MP25382

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6506-1MS, DA6506-1MSD were used as the QC samples for the metals analysis.

Matrix:	SO	Batch ID:	MP25383

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6506-21MS, DA6506-21MSD were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540G-2011 M

Matrix:	SO	Batch ID:	GN43489

- Sample(s) DA6506-20DUP were used as the QC samples for the Solids, Percent analysis.

Matrix:	SO	Batch ID:	GN43490

- Sample(s) DA6506-34DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Kiewit Infrastructure Co.	**Job No**	DA7077
Site:	FAMECOD: I-70 Central Corridor	**Report Date**	10/5/2018 10:21:10 A

On 07/13/2018, 21 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.4 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA7077 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V7V2779

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA4947-21MS, DA4947-21MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike duplicate (MSD) recovery(s) of 1,2,3-Trichloropropane are outside control limits. Probable cause due to matrix interference.

Matrix: SO **Batch ID:** V5V2613

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6965-7MS, DA6965-7MSD were used as the QC samples indicated.
- The RPD(s) for the MS and MSD recoveries of Naphthalene, tert-Butylbenzene, trans-1,3-Dichloropropene, Vinyl Acetate are outside control limits for sample DA6965-7MSD. Variability of recoveries may be due to sample matrix/nonhomogeneity.

Matrix: SO **Batch ID:** V5V2614

- All samples were analyzed within the recommended method holding time.
- Sample(s) DA7077-16MS, DA7077-16MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The RPD(s) for the MS and MSD recoveries of Acrolein are outside control limits for sample DA7077-16MSD. Variability of recoveries may be due to sample matrix/nonhomogeneity.

MS Semi-volatiles By Method SW846 8270C BY SIM

Matrix: SO **Batch ID:** OP16575

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA7077-16MS, DA7077-16MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- DA7077-2: Dilution required due to matrix interference; extract was viscous.
- DA7077-3: Dilution required due to matrix interference; extract was viscous.
- DA7077-4: Dilution required due to matrix interference; extract was viscous.
- DA7077-1: Dilution required due to matrix interference; extract was viscous.
- DA7077-7: Dilution required due to matrix interference; extract was viscous.

Matrix: SO **Batch ID:** OP16581

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA7077-20MS, DA7077-20MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The matrix spike (MS) recovery(s) of Benzo(k)fluoranthene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- The matrix spike duplicate (MSD) recovery(s) of Chrysene, Phenanthrene are outside control limits. Outside control limits due to possible matrix/nonhomogeneity.
- The matrix spike (MS) recovery(s) of Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Chrysene, Fluoranthene, Indeno(1,2,3-cd)pyrene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- The RPD(s) for the MS and MSD recoveries of 1-Methylnaphthalene, 2-Methylnaphthalene, Acenaphthene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits for sample OP16581-MSD. Variability of recoveries may be due to sample matrix/nonhomogeneity.

Metals Analysis By Method SW846 6010C

Matrix: SO **Batch ID:** MP25558

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA7077-1MS, DA7077-1MSD, DA7077-1SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) recovery(s) of Arsenic, Barium, Chromium, Lead are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The matrix spike duplicate (MSD) recovery(s) of Arsenic, Chromium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The serial dilution RPD(s) for Arsenic are outside control limits for sample MP25558-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- DA7077-11 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- MP25558-SD1 for Barium, Cadmium, Chromium, Lead: Serial dilution indicates possible matrix interference.
- DA7077-1 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-1 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-8 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-14 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-6 for Silver: Elevated detection limit due to dilution required for possible matrix interference.

Matrix: SO **Batch ID:** MP25579

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA7077-15MS, DA7077-15MSD, DA7077-15SDL were used as the QC samples for the metals analysis.
- The matrix spike (MS) and matrix spike duplicate (MSD) recovery(s) of Lead, Silver are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- The serial dilution RPD(s) for Lead are outside control limits for sample MP25579-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- DA7077-18 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- MP25579-SD1 for Barium: Serial dilution indicates possible matrix interference.
- DA7077-17 for Silver: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-16 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-15 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-19 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-20 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-19 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-16 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-17 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-20 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-18 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-15 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-21 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-21 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.
- DA7077-17 for Selenium: Elevated detection limit due to dilution required for possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix:	SO	Batch ID:	MP25533

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA6926-21MS, DA6926-21MSD were used as the QC samples for the metals analysis.

Matrix:	SO	Batch ID:	MP25576

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA7077-1MS, DA7077-1MSD were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540G-2011 M

Matrix:	SO	Batch ID:	GN43693

- Sample(s) DA7077-20DUP were used as the QC samples for the Solids, Percent analysis.

Matrix:	SO	Batch ID:	GN43695

- Sample(s) DA7077-21DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Kiewit Infrastructure Co.	**Job No**	DA7575
Site:	FAMECOD: I-70 Central Corridor	**Report Date**	8/6/2018 6:21:59 PM

On 07/31/2018, 6 sample(s), 1 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 4.8 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA7575 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V7V2795

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA4948-31MS, DA4948-31MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** V6V1869

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA7562-2MS, DA7562-2MSD were used as the QC samples indicated.
- The matrix spike duplicate (MSD) recovery(s) of 1,2,3-Trichloropropane, 1,3,5-Trimethylbenzene, tert-Butylbenzene, n-Propylbenzene are outside control limits. Probable cause due to matrix interference.
- The RPD(s) for the MS and MSD recoveries of 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Bromobenzene, m-Dichlorobenzene, n-Butylbenzene, n-Propylbenzene, Naphthalene, o-Dichlorobenzene, p-Dichlorobenzene, p-Isopropyltoluene, sec-Butylbenzene are outside control limits for sample DA7562-2MSD. Variabiliy in recoveries due to possible sample martix/nonhomogeneity.

MS Semi-volatiles By Method SW846 8270C BY SIM

Matrix: SO **Batch ID:** OP16653

- All samples were extracted and analyzed within the recommended method holding time.
- Sample(s) DA7494-21MS, DA7494-21MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals Analysis By Method SW846 6010C

Matrix: SO **Batch ID:** MP25729

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA7575-1MS, DA7575-1MSD, DA7575-1SDL were used as the QC samples for the metals analysis.
- The serial dilution RPD(s) for Cadmium, Chromium are outside control limits for sample MP25729-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- DA7575-6 for Lead: Elevated detection limit due to dilution required for possible matrix interference.
- DA7575-6 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7575-5 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- DA7575-4 for Arsenic: Elevated detection limit due to dilution required for possible matrix interference.
- MP25729-SD1 for Lead: Serial dilution indicates possible matrix interference.

Metals Analysis By Method SW846 7471B

Matrix:	SO	Batch ID:	MP25696

- All samples were digested and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA7470-8MS, DA7470-8MSD were used as the QC samples for the metals analysis.

General Chemistry By Method SM2540G-2011 M

Matrix:	SO	Batch ID:	GN43898

- Sample(s) DA7591-5DUP were used as the QC samples for the Solids, Percent analysis.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.